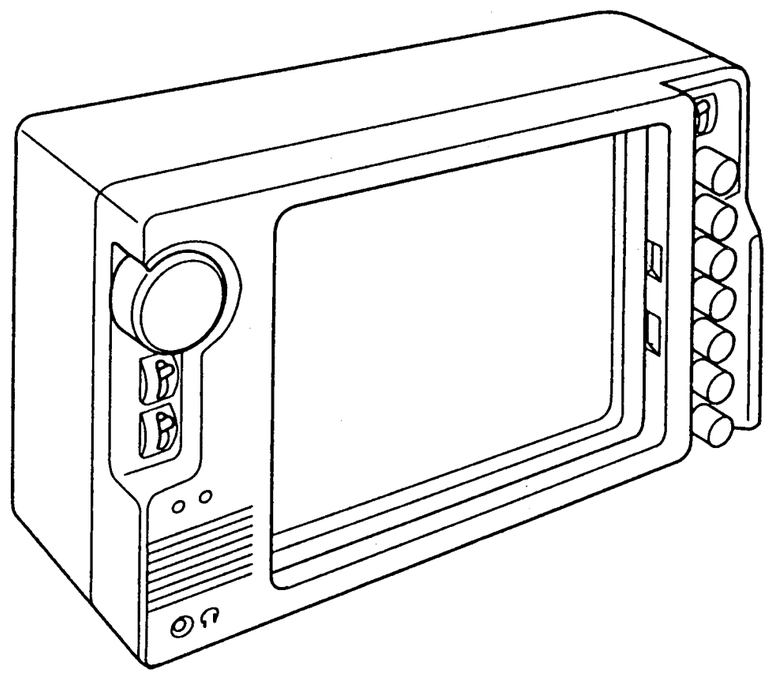
FDL-X600

SERVICE MANUAL

US/CND Model

Chassis No. SCC-F41A-A



MODELS OF THE SAME SERIES	
FDL-X600	

SPECIFICATIONS

Video signal

Color system	PAL, NTSC (automatically selected)
Display	TN LCD/TFT active matrix
Resolution	Video: 330 TV lines (NTSC) 300 TV lines (PAL) Y/C: 330 TV lines (NTSC) 330 TV lines (PAL) RGB: 294 dots
Synchronization	AFC time constant 1.0 msec.

Picture performance

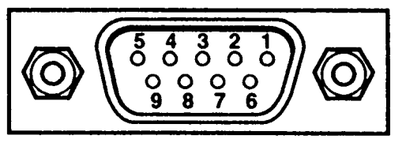
Number of picture elements	194,040 (220 x 882) LINE SKIP for PAL system (An LCD screen can only display 220 screen lines. When a PAL signal is received, screen line density is reduced at a ratio of one line for every six lines.)
Color temperature	9300°/6500°/5000° K switchable

Inputs and Outputs

Inputs

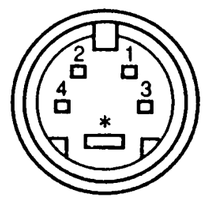
Video (LINE A, LINE B) IN: BNC connector
1.0 Vp-p ± dB, sync negative, 75 ohms automatic termination
Audio (LINE A, LINE B, Y/C, RGB) IN: phono jack, –5dBs, more than 47 kohms
S-Video (Y/C) IN: 4-pin mini DIN
Y (luminance): 1.0 Vp-p, sync negative, 75 ohms terminated
C (chrominance): 0.286 Vp-p, 75 ohms terminated
R, G, B channels: 0.7 Vp-p, ±6 dB
Sync on green: 0.3 Vp-p, negative, 75 ohms terminated
Composite sync: 1.0 Vp-p, negative, 75 ohms terminated

Analog RGB terminal (9 pin)



NO.	SIGNAL
1	GND
2	GND
3	RED
4	GREEN
5	BLUE
6	N. C.
7	N. C.
8	SYNC
9	N. C.

Y/C (Y/C separation) input connector (4 pin)



NO.	SIGNAL
1	Y
2	CHROMA
3	GND
4	GND

Inputs and Outputs (continued)

Loop-through outputs	Video (LINE A, LINE B) OUT: BNC connector, 75 ohms terminated Audio (LINE A, LINE B) OUT: phono jack
Headphones output	Ø3.5 stereo mini jack (audio monaural)
Audio output level	0.3 W monaural (max.)

— Continued on page 2 —

MICROFILM

LCD COLOR MONITOR

SONY®

Automatic termination of BNC connectors
The rear BNC input connectors are internally terminated at 75 ohms when nothing is connected to the output connector (VIDEO OUT). However, this impedance limit is automatically removed when a cable is plugged into the output connector, and the signal is looped-through as it is.

General

Picture size	149 mm (5.9 inch) (measured diagonally)
Power consumption	Approx. 12 W
Power requirements	6 – 9V DC, with the Sony (NP-55H/66H/77H/77HD) battery pack (not supplied) or DCP-77 car battery adaptor (not supplied)
Operating temperature range	0 – 35°C
Storage temperature range	–10 – +40°C
Operating humidity range	0 – 90%
Dimensions (w/h/d)	216 x 132 x 85 mm (8⅝ x 5¼ x 3⅜ inches) incl. projecting parts and controls
Weight	Approx. 1300 g (approx. 2 lb 14 oz) not incl. battery packs
Supplied accessories	Detachable hood (1) Carrying belt (1) Cleaning cloth (1) Instruction manual
Optional accessories	Car battery adaptor DCP-77 Rechargeable battery pack NP-55H/66H/77H/77HD RGB – 4 BNC cable (D-sub 9 pin – BNC x 4) SMF-1200 RGB – D-sub cable (D-sub 9 pin – D-sub 25 pin) SMF-1220 D-sub 9 pin – D-sub 9 pin cable SMF-512 D-sub 9 pin – D-sub 9 pin cable RCC-5G/10G/30G

Design and specifications are subject to change without notice.

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SAFETY CHECK-OUT
(US Model only)

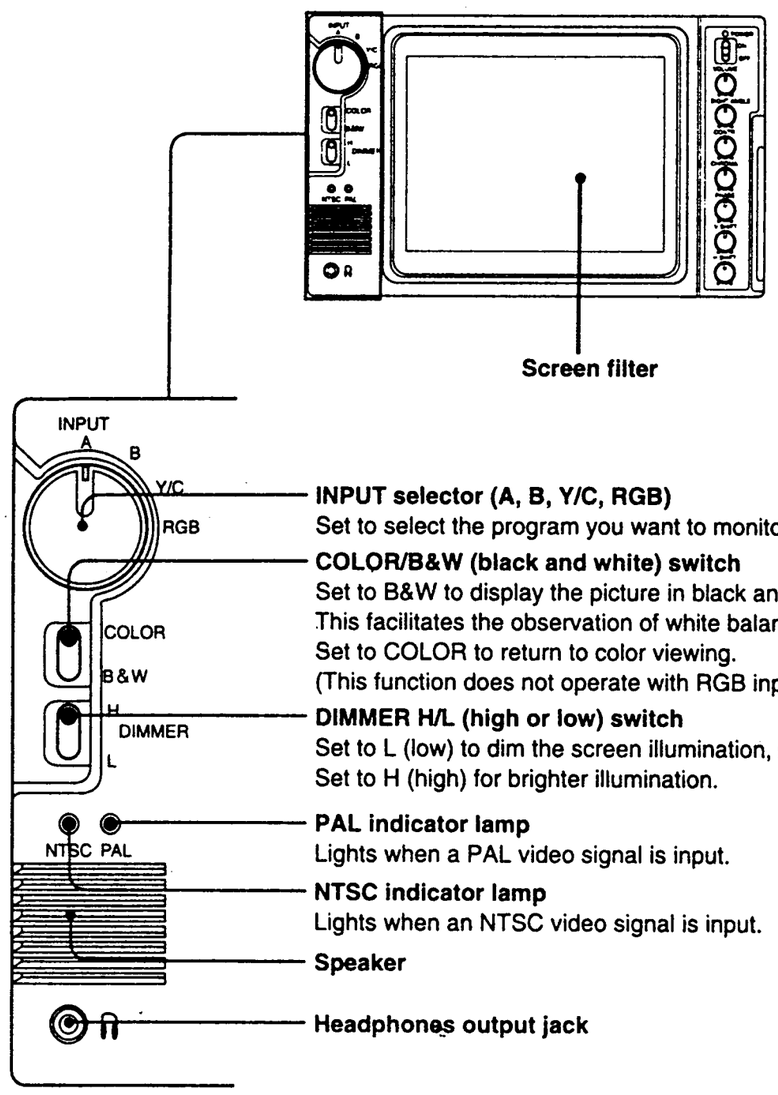
After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cord for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the B+ to see they are at the values specified.

SECTION 1
GENERAL

1-1. LOCATION AND FUNCTIONS OF PARTS AND CONTROLS

Front Left



INPUT selector (A, B, Y/C, RGB)
Set to select the program you want to monitor.

COLOR/B&W (black and white) switch
Set to B&W to display the picture in black and white only. This facilitates the observation of white balance and impurities.
Set to COLOR to return to color viewing.
(This function does not operate with RGB input.)

DIMMER H/L (high or low) switch
Set to L (low) to dim the screen illumination, saving power.
Set to H (high) for brighter illumination.

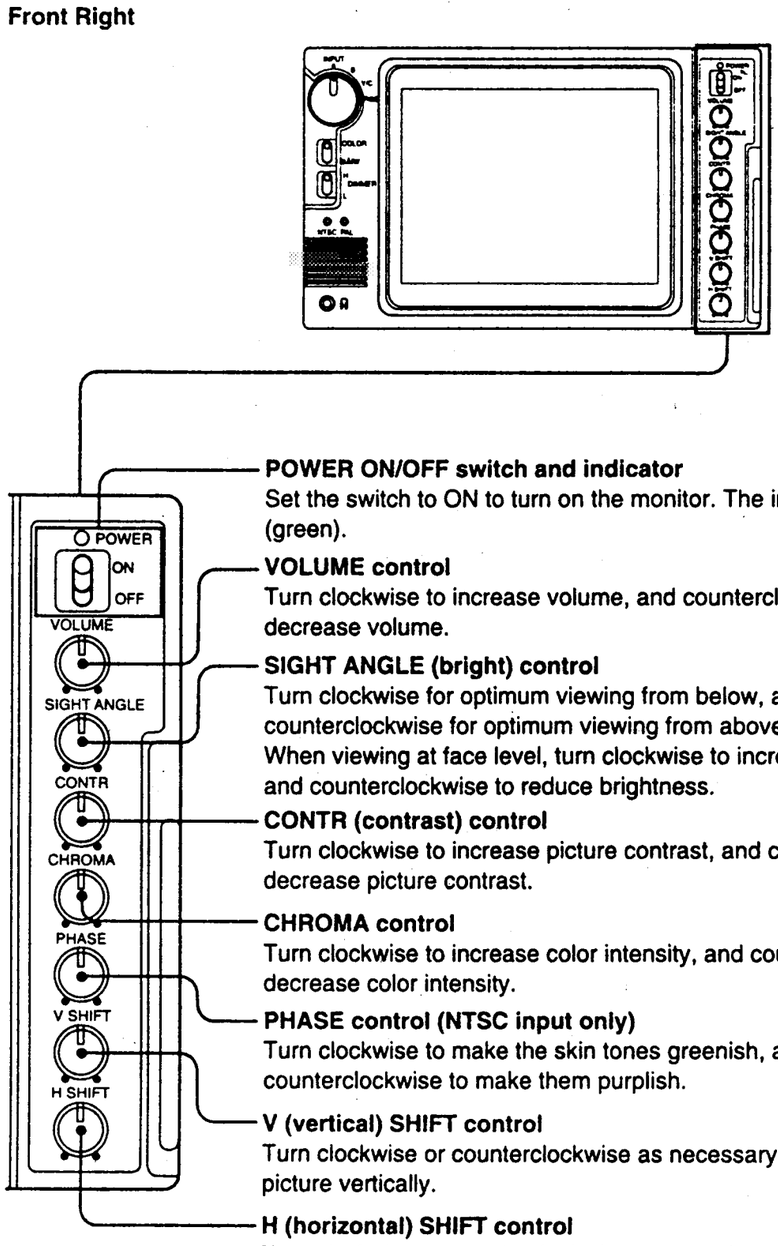
PAL indicator lamp
Lights when a PAL video signal is input.

NTSC indicator lamp
Lights when an NTSC video signal is input.

Speaker

Headphones output jack

Front Right



POWER ON/OFF switch and indicator
Set the switch to ON to turn on the monitor. The indicator lights (green).

VOLUME control
Turn clockwise to increase volume, and counterclockwise to decrease volume.

SIGHT ANGLE (bright) control
Turn clockwise for optimum viewing from below, and counterclockwise for optimum viewing from above.
When viewing at face level, turn clockwise to increase brightness, and counterclockwise to reduce brightness.

CONTR (contrast) control
Turn clockwise to increase picture contrast, and counterclockwise to decrease picture contrast.

CHROMA control
Turn clockwise to increase color intensity, and counterclockwise to decrease color intensity.

PHASE control (NTSC input only)
Turn clockwise to make the skin tones greenish, and counterclockwise to make them purplish.

V (vertical) SHIFT control
Turn clockwise or counterclockwise as necessary to align the picture vertically.

H (horizontal) SHIFT control
Turn clockwise or counterclockwise as necessary to align the picture horizontally.

Rear

COLOR TEMP (temperature) switch
Select the color temperature (9300°/6500°/5000° K) which best suits the lighting conditions of the received image.

DC IN 6.5V (input) jack
Connect to 6.5 V (over 2 A) output

RGB (Analog) input connector/AUDIO IN connectors
Connect to a video camera's analog RGB signal outputs, and set the front INPUT selector to RGB.

Y/C VIDEO/AUDIO IN connectors
Connect to the S video output of a video camera, VCR or other video equipment.

LINE A/LINE B connectors
To monitor the signal fed through these connectors, set the front INPUT selector to LINE A or LINE B.
VIDEO IN: Connect to the video output of a video camera, VCR or other video equipment.
VIDEO OUT: Loop-through output of the VIDEO IN connector. Connect to the video input of a VCR or another monitor.
AUDIO IN: Connect to the audio output of a VCR or a microphone (through a suitable microphone amplifier).
AUDIO OUT: Loop-through output of the AUDIO IN connector. Connect to the audio input of a VCR or another monitor.

Rear

Carrying belt attachment screws

Battery compartment
Attach power sources (not supplied):
- NP-55H/66H/77H/77HD rechargeable battery pack
- DCP-77 car battery adaptor

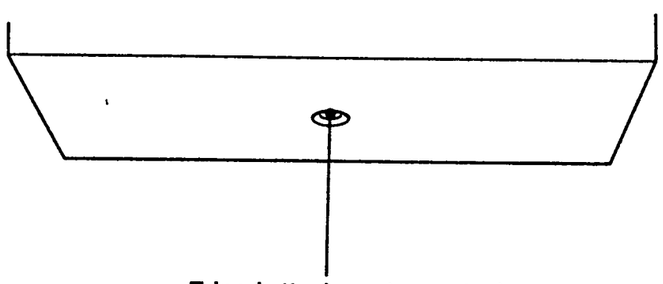
BATT (battery) release lever

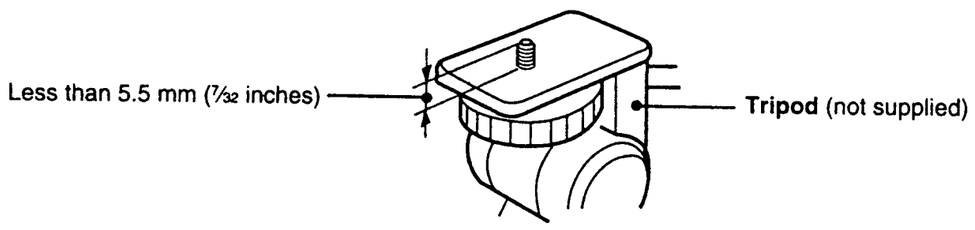
Attaching to a tripod

If you have a tripod for a still camera, you can also use it with the monitor. If a tripod is not available, try placing the monitor on a table top or any other flat surface of suitable height.

Caution
When attaching a tripod, the length of the mounting screw must be less than 5.5 mm (7⁄32 inches).

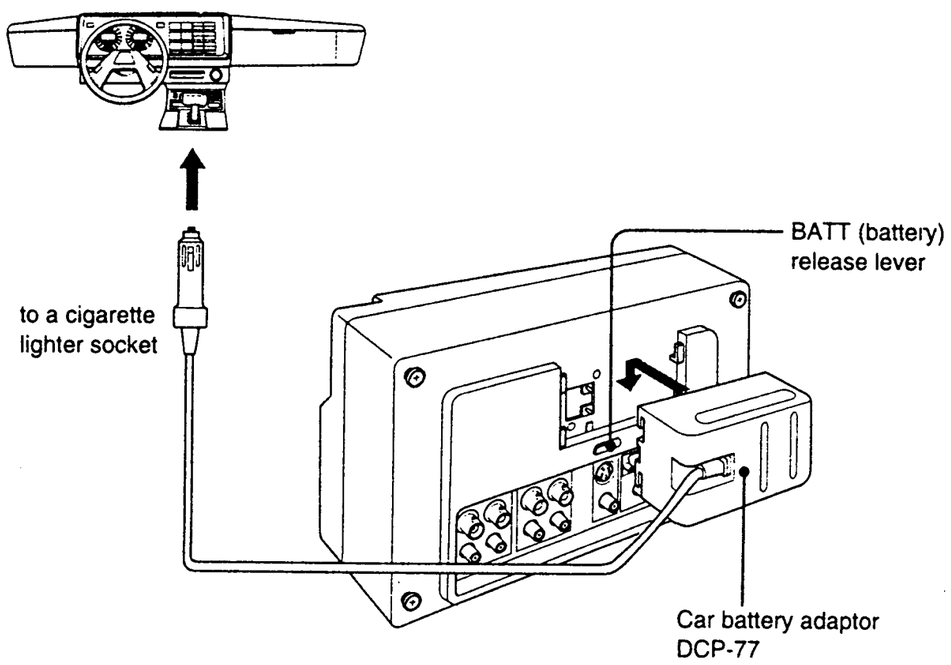
Bottom





Car battery adaptor

You can operate the monitor using the DCP-77 car battery adaptor (not supplied), by attaching it to the battery compartment, as shown below.
For detailed information, see the operating instructions provided with the car battery adaptor.
Never operate the monitor or watch the screen while driving. Do not install the monitor in a position where the driver can see the screen.



Removing the car battery adaptor
While sliding the BATT (battery) release lever to the right, slide the car battery adaptor up to remove it from the battery compartment.

Caution
- Connect the DCP-77 car battery adaptor to a negatively grounded car only.
- Do not leave the monitor in a car with all the windows closed, and exposed to direct sunlight. Extremely high temperatures may result in damage or deformation. Never install the monitor in a car permanently.
- The car battery will run down if you use the monitor for a long time with the car engine off. Keep the engine running while using the monitor.
- Always pull out the DCP-77 adaptor's plug from the cigarette lighter socket when getting out of the car.

1-2. POWER SOURCES

You can use any of the following power sources (not supplied) to operate the monitor:
- Rechargeable battery pack
- Car battery adaptor

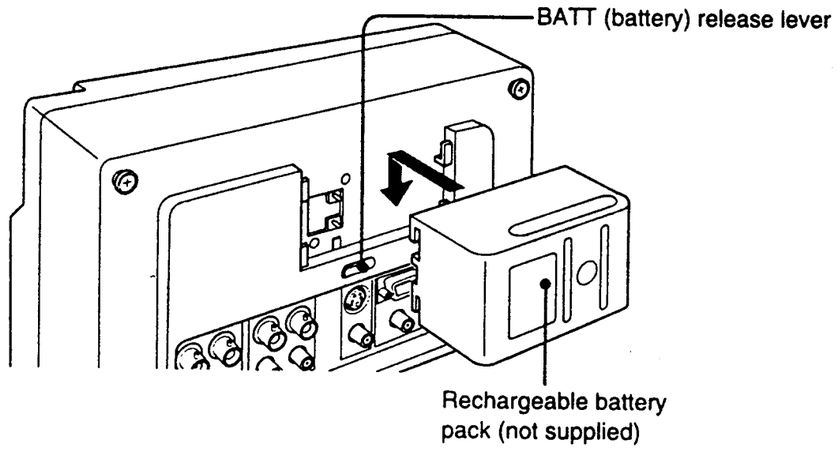
Rechargeable battery pack

You can operate the monitor using the NP-55H/66H/77H/77HD rechargeable battery pack (not supplied), by attaching it to the battery compartment, as shown below.
For detailed information, see the operating instructions provided with the battery pack.

The rechargeable battery pack lasts approximately as shown below, when fully charged.

Model	NP-55H	NP-66H	NP-77H, 77HD
Approx. time	30 minutes	50 minutes	60 minutes

(Rear of monitor)



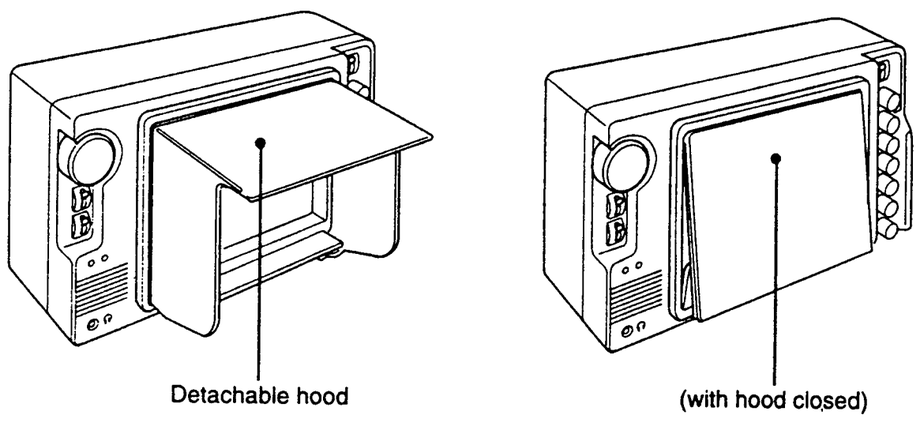
Removing the battery pack
While sliding the BATT (battery) release lever to the right, slide the battery pack up to remove it from the battery compartment.

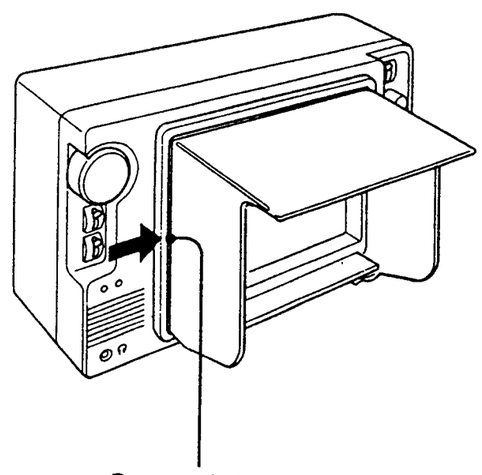
1-3. USING THE SUPPLIED ACCESSORIES

Detachable Hood

Attach the supplied detachable hood to reduce glare and reflected light, for better screen viewing. When not using the monitor, fold in the hood while it is still attached to the monitor, to use the hood as a cover to protect the screen.

(Front of monitor)

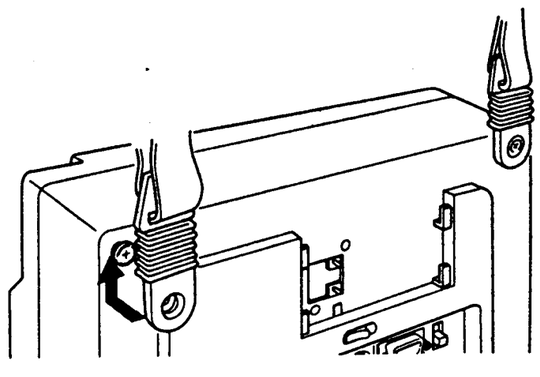




Carrying Belt

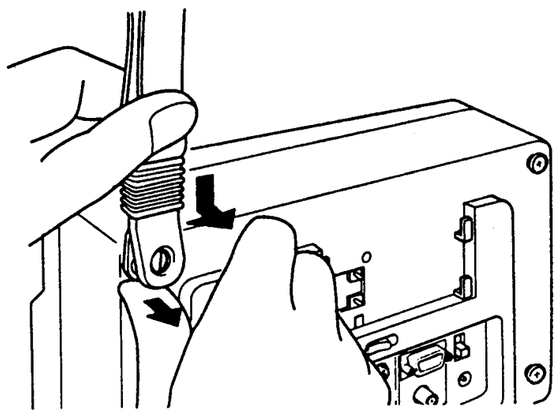
Attach the supplied carrying belt to the screws at the rear of the monitor as shown, for convenient transport of the monitor.

(Rear of monitor)



Attach the clips to the attachment screws, pushing each clip in and up until the screw is engaged in the clip.

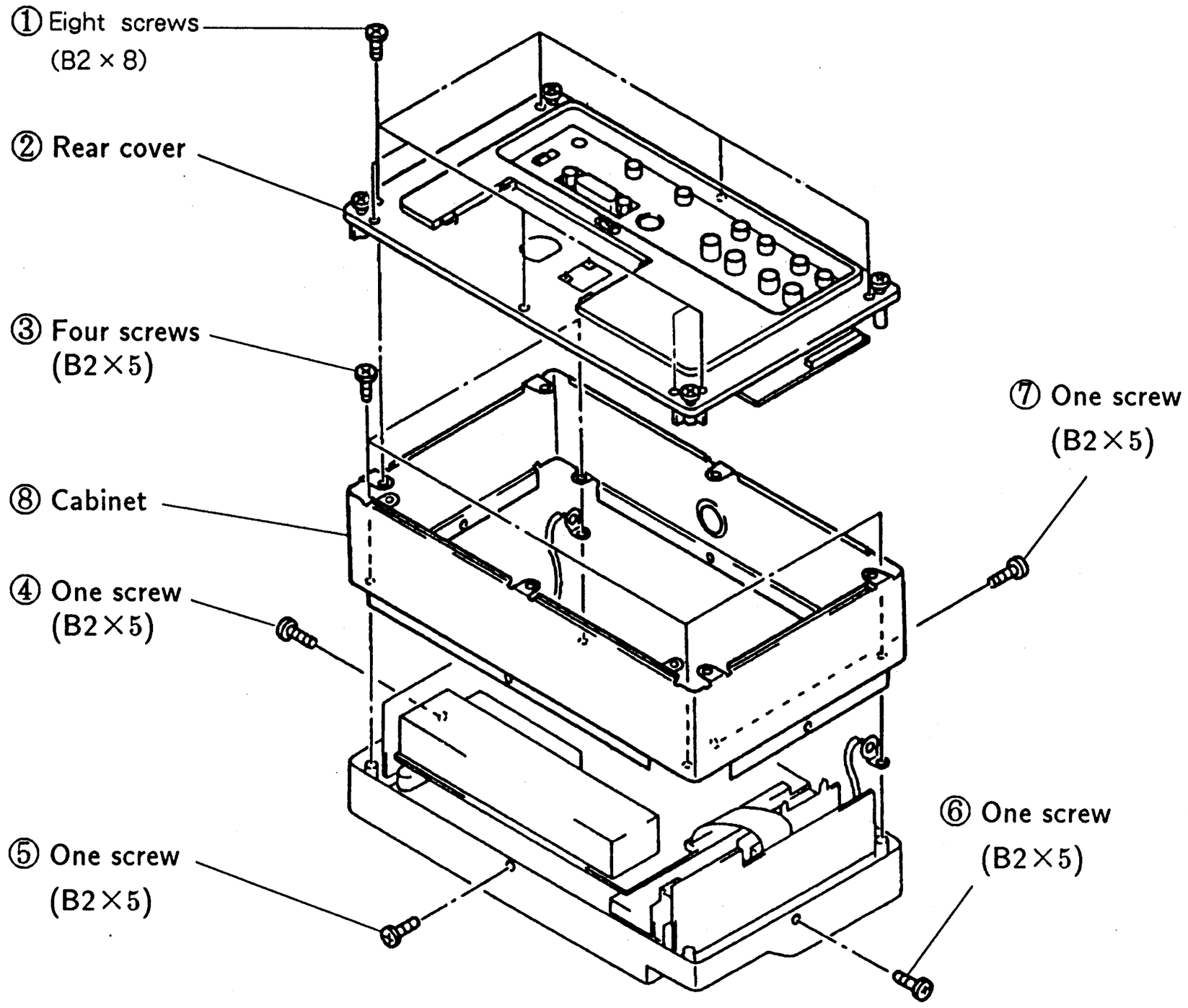
Removing the carrying belt



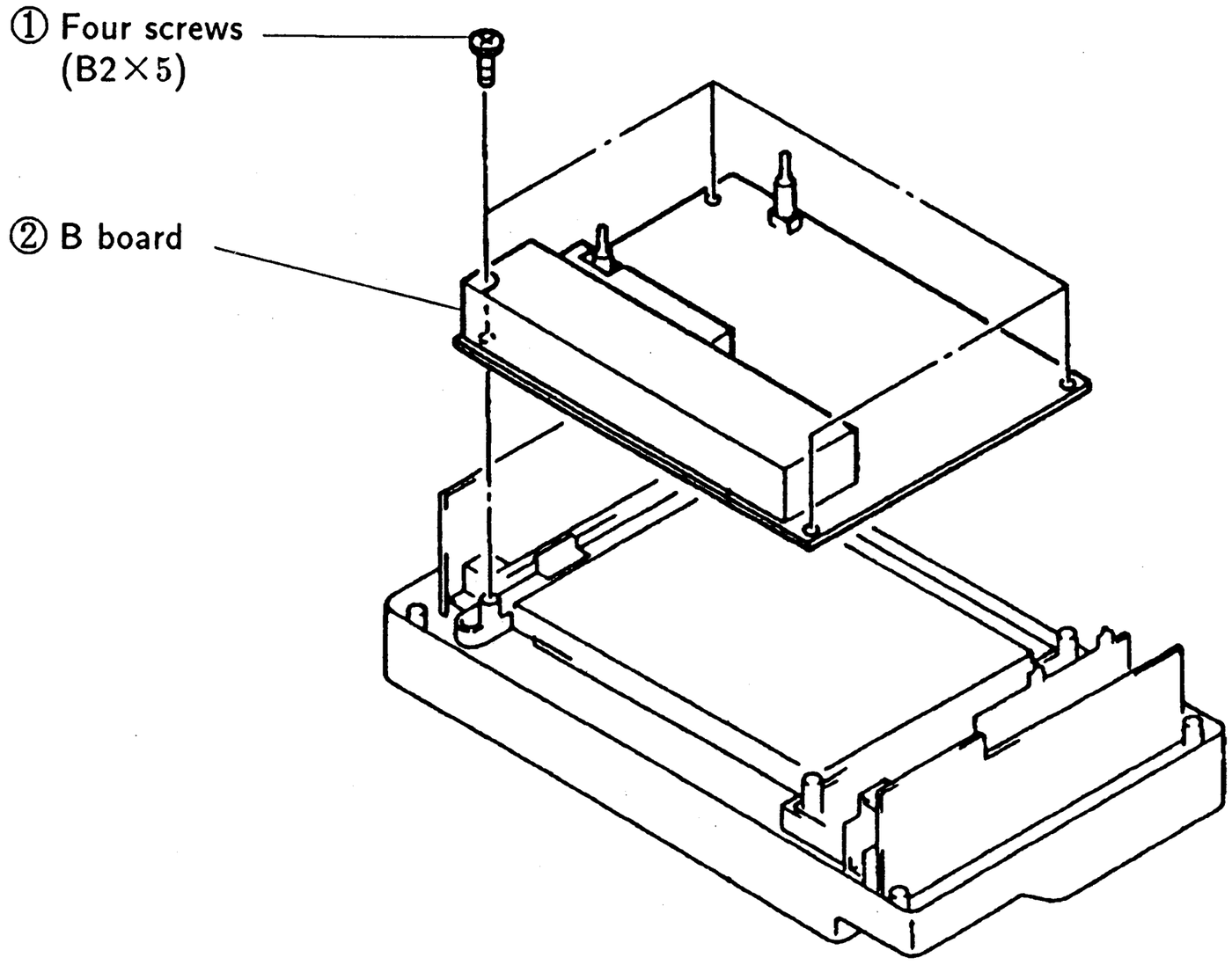
Separate and hold the top part of the clip as shown, while pushing down and away to remove the clip from the attachment screw.

SECTION 2
DISASSEMBLY

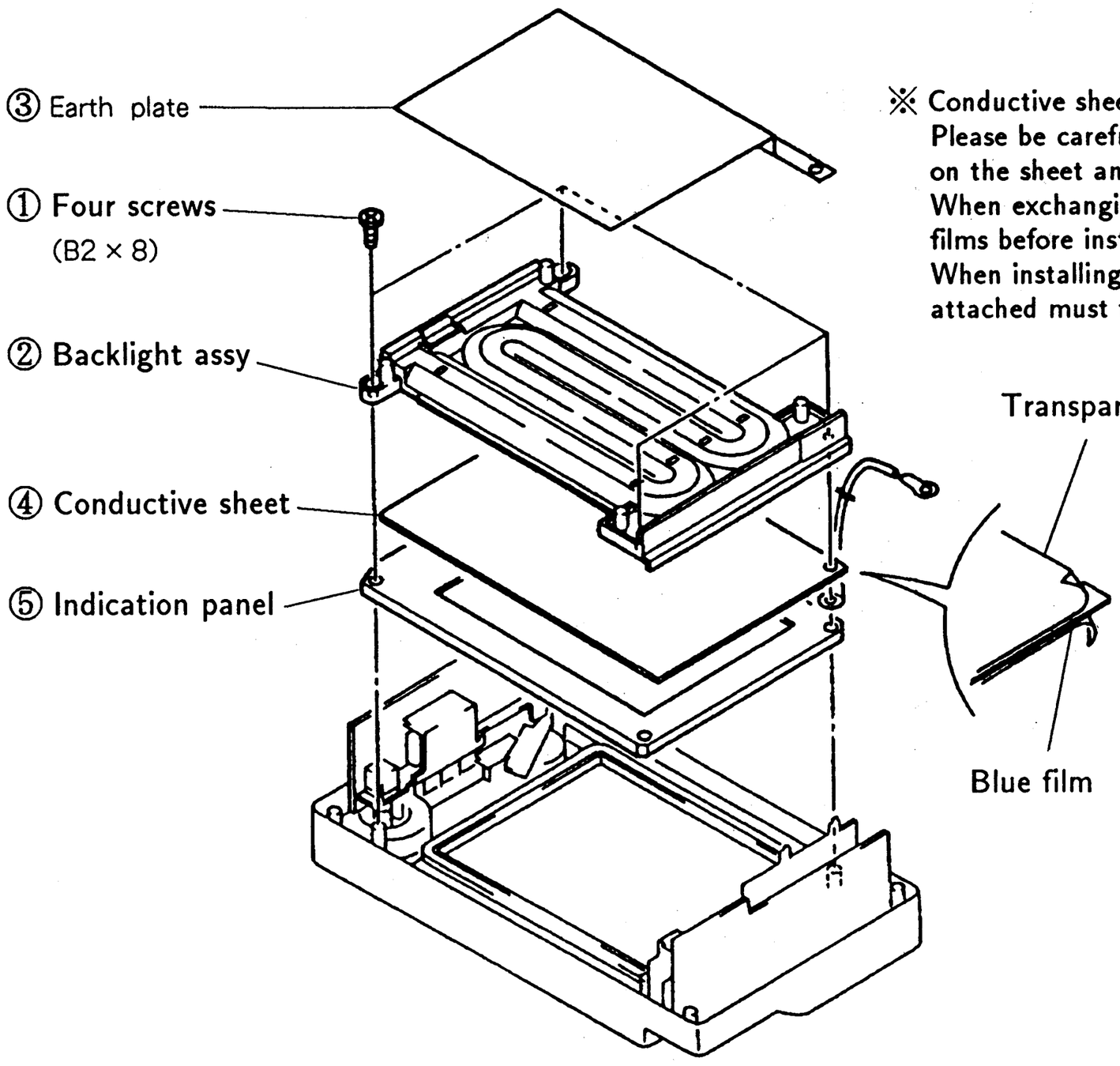
2-1. REAR COVER AND CABINET REMOVAL



2-2. B BOARD REMOVAL

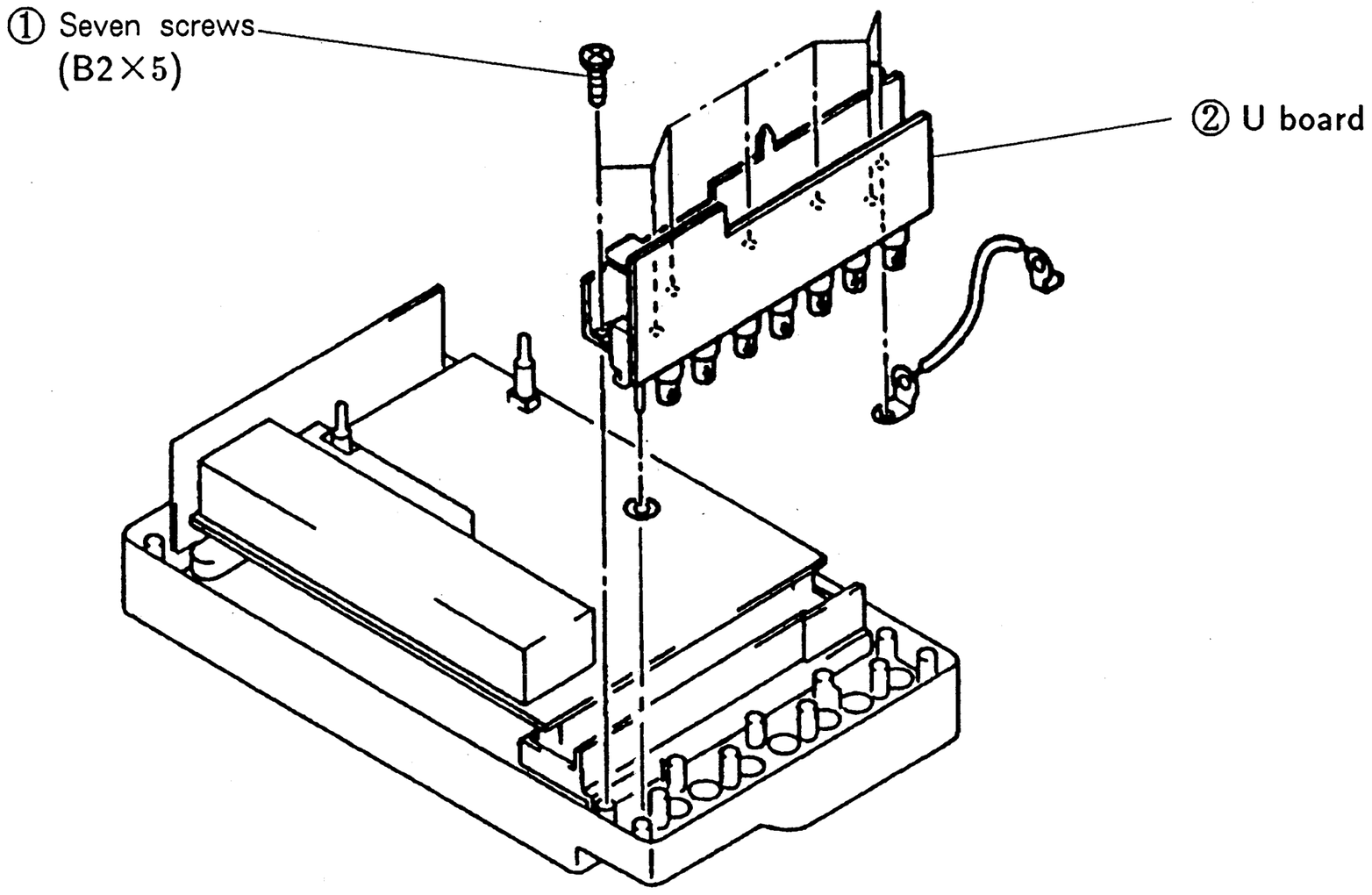


2-3. BACKLIGHT ASSY AND INDICATION PANEL REMOVAL



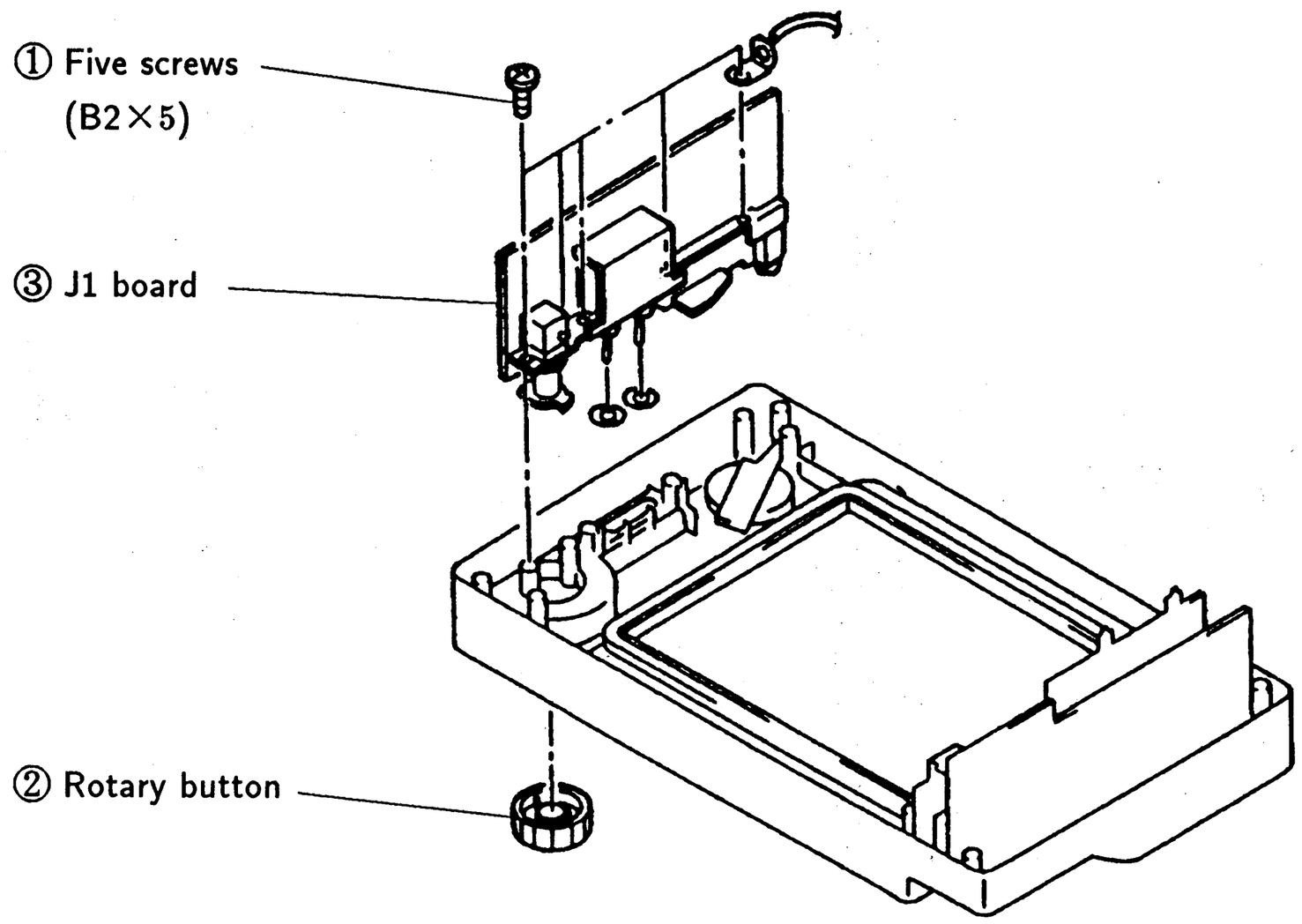
※ Conductive sheet has both sides.
Please be careful that the side with transparency film is on the sheet and the other with blue film is under.
When exchanging conductive sheet, get rid of both films before installation.
When installing the sheet, its side where blue film was attached must face LCD panel.

2-4. U BOARD REMOVAL



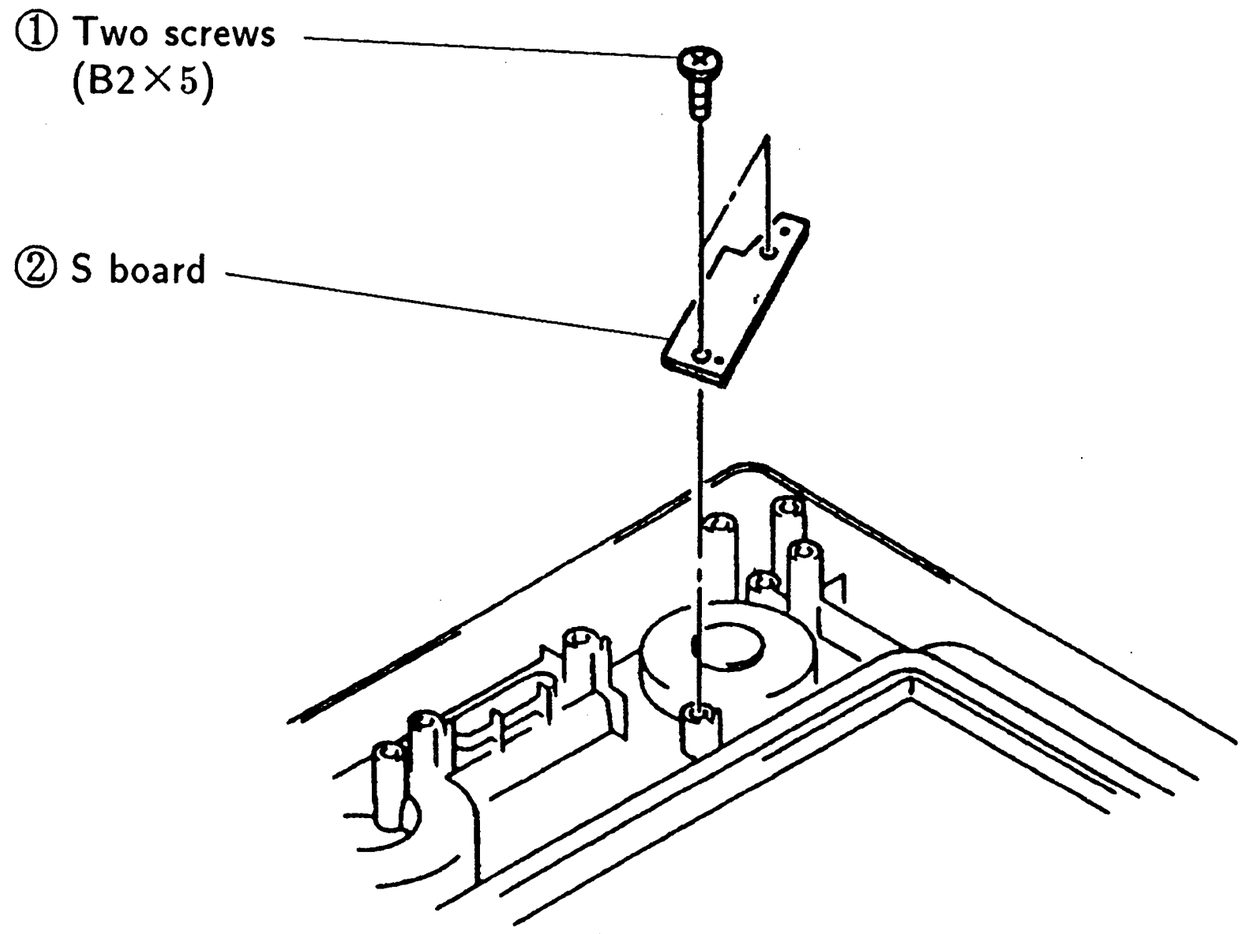
2-5. J1 BOARD REMOVAL

※ **Remove the backlight and the indication panel. (Refer to 2-3.)**

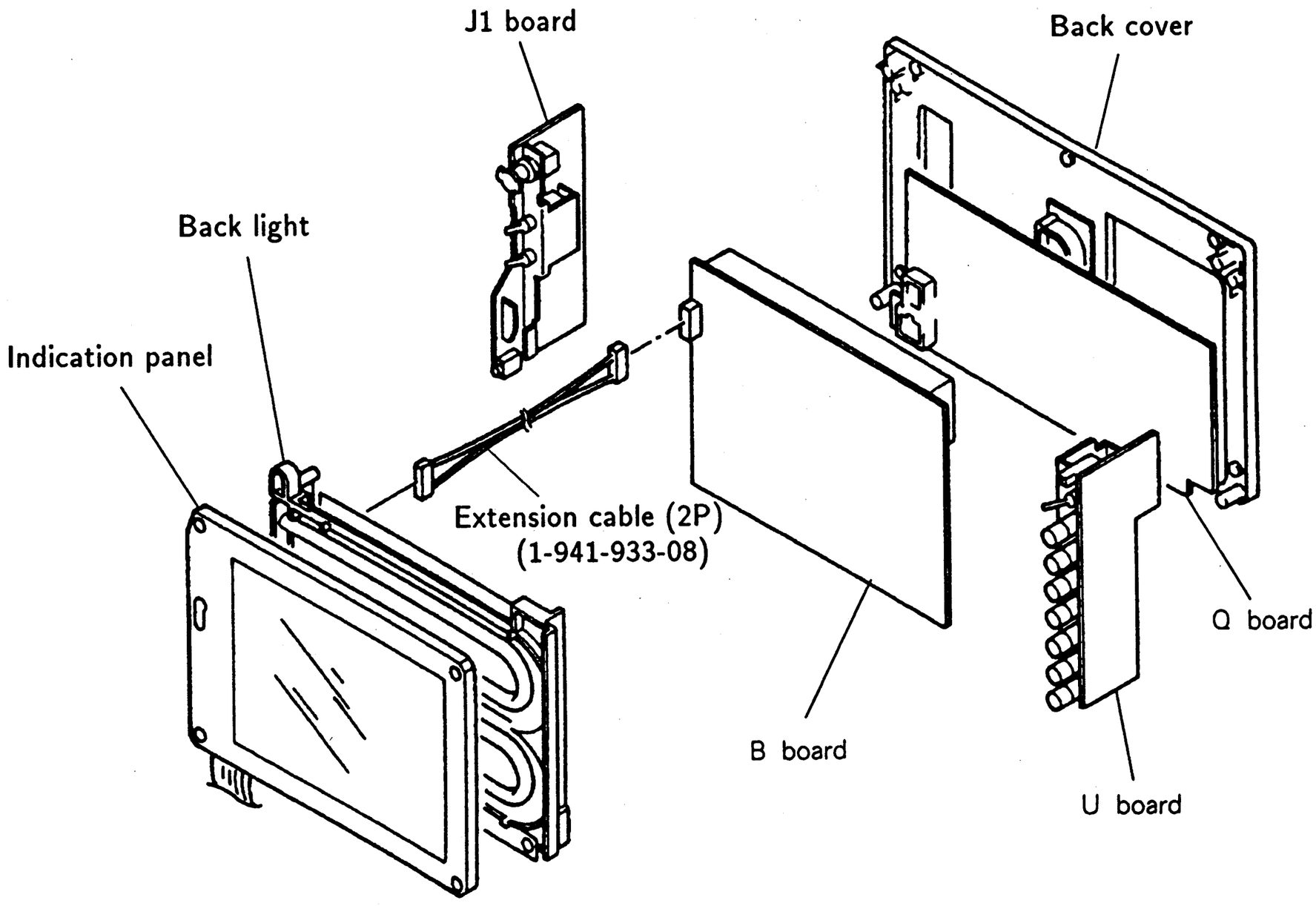


2-6. S BOARD REMOVAL

※ **Remove the J1 board. (Refer to 2-5.)**



2-7. SERVICE POSITION



Drive adjustment (RV502, RV501)

1. Input a 10-gradation gray scale signal.
2. Supply 2.2 V ± 0.1VDC voltage to TP024 and 025.

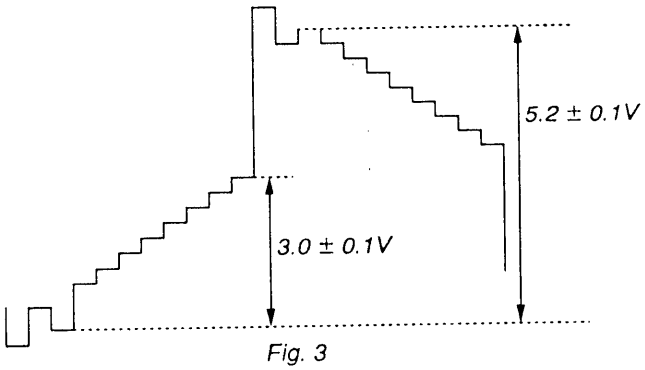


Fig. 3

3. Adjust RV502 so that 0IRE-100IRE of TP051 become 3.0 ± 0.1VDC.
4. Alter the voltage of TP024 so that the amplitude between the black (upper) and the black (lower) of TP051 becomes 5.2 ± 0.1V.
5. Confirm that 0IRE-100IRE of TP051 are in the value of 3.0 ± 0.1V at the time of step 4.
6. Adjust RV501 so that 0IRE-100IRE of TP053 become 3.0 ± 0.1VDC.
7. Alter the voltage of TP025 so that the amplitude between the black (upper) and the black (lower) of TP053 becomes 5.2 ± 0.1V.
8. Confirm that 0IRE-100IRE of TP053 are in the value of 3.0 ± 0.1V at the time of step 7.

V COM rough adjustment (RV508, RV509)

1. Adjust RV509 (AMP) and RV508 (BIAS) so that the waveform of TP058 takes the shape shown in Fig. 4.

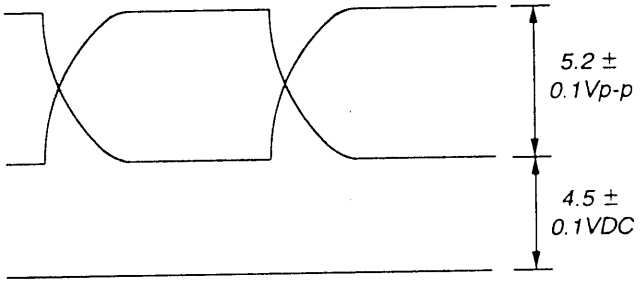


Fig. 4

Color adjustment (RV305, RV307)

1. Input a color bar (NTSC white 75 %).
2. Adjust RV305 (COL) and RV307 (HUE) so that the waveform of TP040 takes the shape shown in Fig. 5.

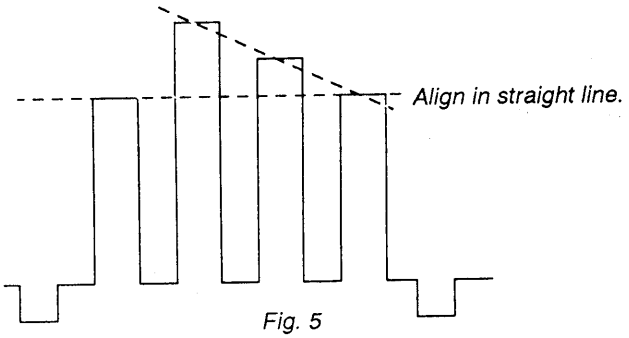


Fig. 5

AntiPAL adjustment (RV308, T303)

1. Input a Phillips pattern (PAL).
2. Connect TP044 to the GND.
3. Adjust RV308 and T303 so that the differences at each 1H of the waveform of TP040 become minimum. (Refer to Fig. 6)
4. Confirm that the differences at each 1H of the waveform of TP038 are minimum. (Fig. 7)
5. Disconnect TP044 from the GND.

Fig. 6

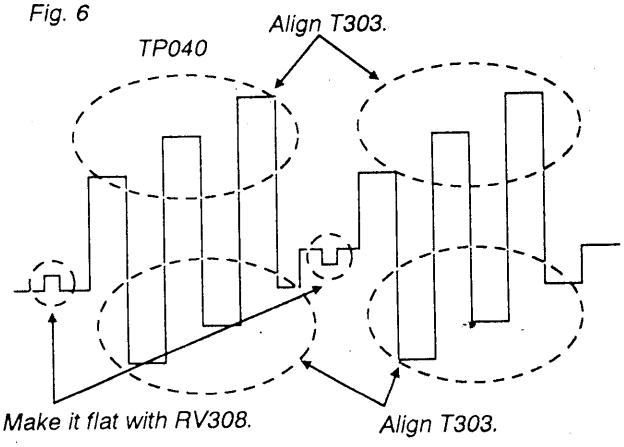
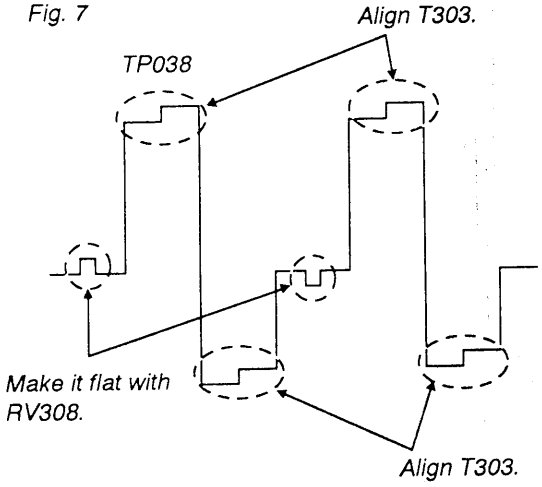


Fig. 7



Drive adjustment (RV502, RV501)

1. Input a 10-gradation gray scale signal.
2. Supply 2.2 V ± 0.1VDC voltage to TP024 and 025.

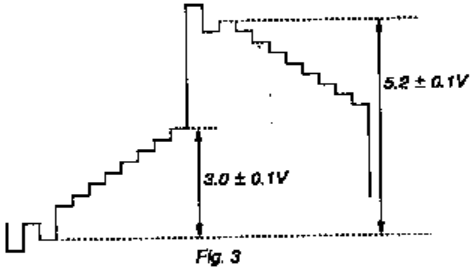


Fig. 3

3. Adjust RV502 so that 0IRE-100IRE of TP051 become 3.0 ± 0.1VDC.
4. Alter the voltage of TP024 so that the amplitude between the black (upper) and the black (lower) of TP051 becomes 5.2 ± 0.1V.
5. Confirm that 0IRE-100IRE of TP051 are in the value of 3.0 ± 0.1V at the time of step 4.
6. Adjust RV501 so that 0IRE-100IRE of TP053 become 3.0 ± 0.1VDC.
7. Alter the voltage of TP025 so that the amplitude between the black (upper) and the black (lower) of TP053 becomes 5.2 ± 0.1V.
8. Confirm that 0IRE-100IRE of TP053 are in the value of 3.0 ± 0.1V at the time of step 7.

V COM rough adjustment (RV508, RV509)

1. Adjust RV509 (AMP) and RV508 (BIAS) so that the waveform of TP058 takes the shape shown in Fig. 4.

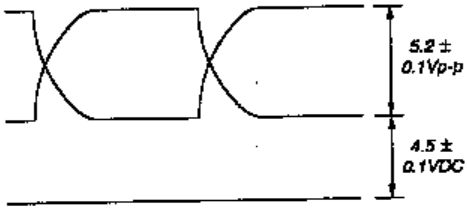


Fig. 4

Color adjustment (RV305, RV307)

1. Input a color bar (NTSC white 75 %).
2. Adjust RV305 (COL) and RV307 (HUE) so that the waveform of TP040 takes the shape shown in Fig. 5.

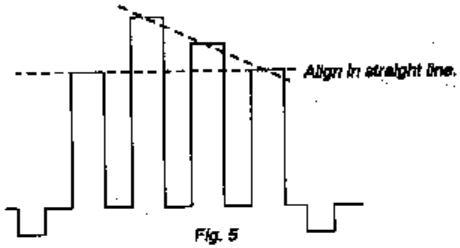


Fig. 5

Ant[PAL adjustment (RV308, T303)

1. Input a Phillips pattern (PAL).
2. Connect TP044 to the GND.
3. Adjust RV308 and T303 so that the differences at each 1H of the waveform of TP040 become minimum. (Refer to Fig. 6)
4. Confirm that the differences at each 1H of the waveform of TP038 are minimum. (Fig. 7)
5. Disconnect TP044 from the GND.

Fig. 6

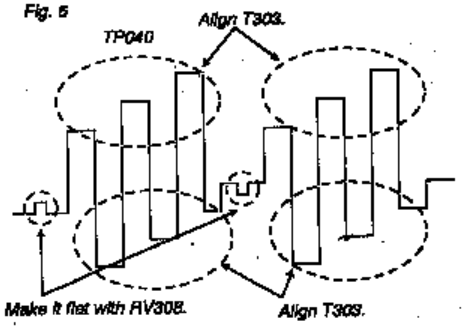
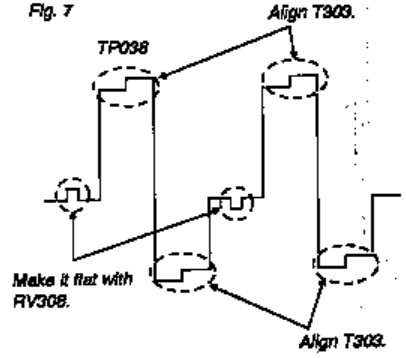
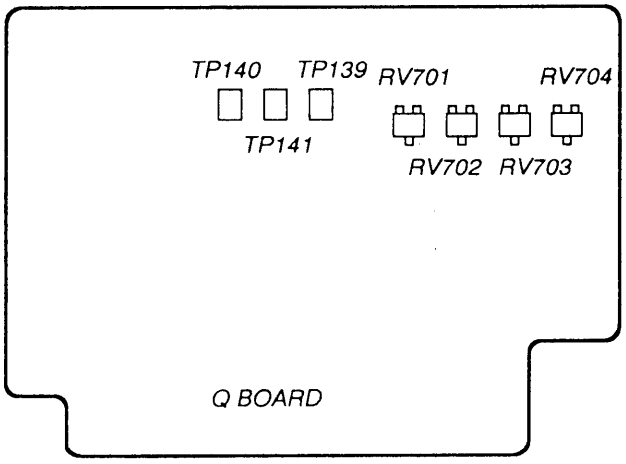


Fig. 7



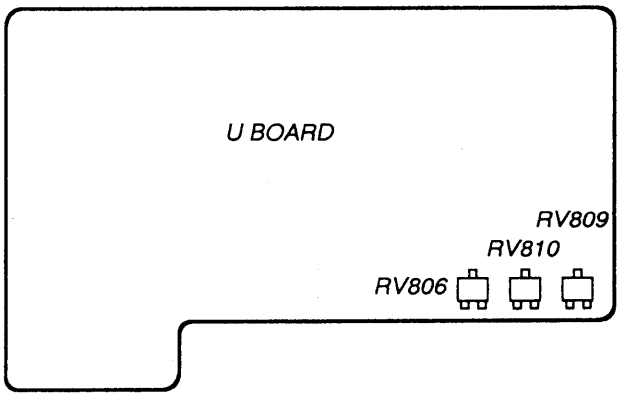
Q-Board

(COMPONENT SIDE)



U-Board

(COMPONENT SIDE)



RGB adjustment (RV701, RV702, RV703, RV704)

1. Input a RGB signal to the Analog RGB.
2. Adjust RV702 so that the pedestal level of TP140 becomes 0.9 ± 0 .02 VDC.
3. Adjust RV701 so that the 100% white level of TP140 becomes 1.6 ± 0.02VDC.
4. Adjust the tracking in steps 2. and 3.
5. Adjust RV703 so that the pedestal level of TP139 becomes 0.9 ± 0.02VDC.
6. Adjust RV704 so that the pedestal level of TP141 becomes 0.9 ± 0.02VDC.

RGB signal : 0.7 Vp-p/75 Ω terminated
(10-gradation gray scale signal)

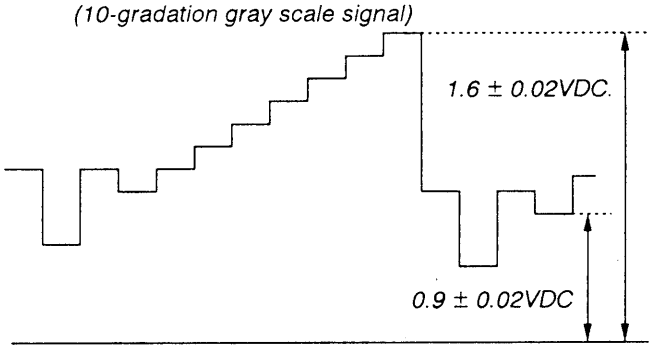


Fig. 8

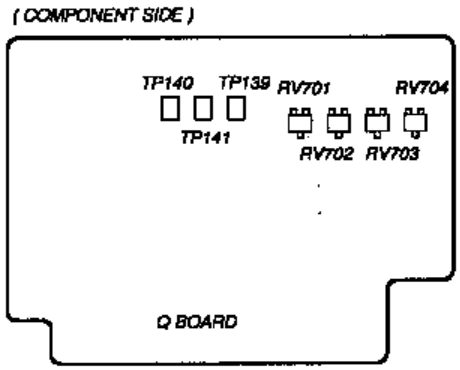
V-Center adjustment (RV806, RV810)

1. Set the V SHIFT to the mechanical center.
2. Set the input signal to PAL and adjust the V center with RV810.
3. Set the input signal to NTSC and adjust the V center with RV806.

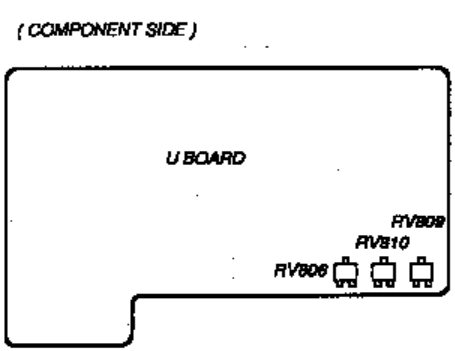
H-Center adjustment (RV809)

1. Set the H SHIFT to the mechanical center.
2. Set the input signal to NTSC and adjust the H center with RV809.
3. Set the input signal to PAL and confirm the H center.

Q-Board



U-Board



RGB adjustment (RV701, RV702, RV703, RV704)

1. Input a RGB signal to the Analog RGB.
2. Adjust RV702 so that the pedestal level of TP140 becomes 0.9 ± 0 .02 VDC.
3. Adjust RV701 so that the 100% white level of TP140 becomes 1.6 ± 0.02VDC.
4. Adjust the tracking in steps 2. and 3.
5. Adjust RV703 so that the pedestal level of TP139 becomes 0.9 ± 0.02VDC.
6. Adjust RV704 so that the pedestal level of TP141 becomes 0.9 ± 0.02VDC.

RGB signal : 0.7 Vp-p/75 Ω terminated
(10-gradation gray scale signal)

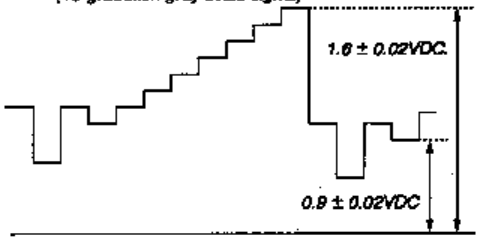


Fig. 8

V-Center adjustment (RV806, RV810)

1. Set the V SHIFT to the mechanical center.
2. Set the input signal to PAL and adjust the V center with RV810.
3. Set the input signal to NTSC and adjust the V center with RV806.

H-Center adjustment (RV809)

1. Set the H SHIFT to the mechanical center.
2. Set the input signal to NTSC and adjust the H center with RV809.
3. Set the input signal to PAL and confirm the H center.

MEMO

MEMO

SECTION 6
ELECTRICAL PARTS LIST

B

NOTE:

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

CAPACITORS
- MF : μF, PF : μμF

COILS
- MMH : mH, UH : μH

REF.NO.	PART NO.	DESCRIPTION			REMARK
*A-1135-732-A	B BOARD, COMPLETE	**********			
	<CAPACITOR>				
C301	1-128-453-21	ELECT CHIP 47MF	20%	6.3V	
C302	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V	
C303	1-128-414-21	ELECT CHIP 220MF	20%	6.3V	
C304	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V	
C307	1-126-391-11	ELECT CHIP 47MF	20%	6.3V	
C308	1-126-401-11	ELECT CHIP 1MF	20%	50V	
C310	1-162-925-11	CERAMIC CHIP 68PF	5%	50V	
C311	1-126-398-11	ELECT CHIP 4.7MF	20%	35V	
C314	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V	
C315	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V	
C317	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V	
C319	1-126-398-11	ELECT CHIP 4.7MF	20%	35V	
C320	1-162-916-11	CERAMIC CHIP 12PF	5%	50V	
C321	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V	
C322	1-128-414-21	ELECT CHIP 220MF	20%	6.3V	
C324	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V	
C325	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V	
C326	1-126-401-11	ELECT CHIP 1MF	20%	50V	
C328	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V	
C329	1-126-401-11	ELECT CHIP 1MF	20%	50V	
C333	1-126-394-11	ELECT CHIP 10MF	20%	16V	
C335	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V	
C338	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V	
C340	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V	
C344	1-126-401-11	ELECT CHIP 1MF	20%	50V	
C345	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V	
C346	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V	
C347	1-128-414-21	ELECT CHIP 220MF	20%	6.3V	
C348	1-126-402-11	ELECT CHIP 2.2MF	20%	50V	
C349	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V	
C350	1-162-917-11	CERAMIC CHIP 15PF	5%	50V	
C351	1-164-227-11	CERAMIC CHIP 0.022MF	10%	25V	
C352	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V	
C353	1-128-594-11	ELECT CHIP 1MF	20%	50V	
C355	1-126-394-11	ELECT CHIP 10MF	20%	16V	
C356	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V	
C357	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V	
C358	1-128-594-11	ELECT CHIP 1MF	20%	50V	
C359	1-162-915-11	CERAMIC CHIP 10PF	0.5PF	50V	
C360	1-163-986-00	CERAMIC CHIP 0.027MF	10%	25V	
C361	1-162-916-11	CERAMIC CHIP 12PF	5%	50V	
C362	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V	
C363	1-163-986-00	CERAMIC CHIP 0.027MF	10%	25V	
C365	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V	
C366	1-164-156-11	CERAMIC CHIP 0.1MF		25V	
C367	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V	
C368	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V	
C369	1-163-986-00	CERAMIC CHIP 0.027MF	10%	25V	
C370	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V	
C372	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V	
C374	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V	
C375	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V	
C376	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V	
C377	1-162-923-11	CERAMIC CHIP 47PF	5%	50V	
C379	1-162-917-11	CERAMIC CHIP 15PF	5%	50V	
C381	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V	
C383	1-162-923-11	CERAMIC CHIP 47PF	5%	50V	
C385	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V	
C386	1-128-391-11	ELECT 330MF	20%	6.3V	
C387	1-128-391-11	ELECT 330MF	20%	6.3V	
C401	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V	
C402	1-126-401-11	ELECT CHIP 1MF	20%	50V	
C404	1-126-401-11	ELECT CHIP 1MF	20%	50V	
C405	1-126-391-11	ELECT CHIP 47MF	20%	6.3V	
C406	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V	
C407	1-126-390-11	ELECT CHIP 22MF	20%	6.3V	
C408	1-126-390-11	ELECT CHIP 22MF	20%	6.3V	
C409	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V	
C410	1-135-159-21	TANTAL. CHIP 10MF	20%	16V	
C411	1-165-128-11	CERAMIC CHIP 0.22MF		16V	
C412	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V	
C413	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V	
C414	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V	
C415	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V	
C416	1-126-396-11	ELECT CHIP 47MF	20%	16V	
C417	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V	
C418	1-128-416-21	ELECT CHIP 100MF	20%	16V	
C419	1-126-391-11	ELECT CHIP 47MF	20%	6.3V	
C420	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V	
C421	1-126-390-11	ELECT CHIP 22MF	20%	6.3V	
C501	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V	
C502	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V	
C503	1-128-414-21	ELECT CHIP 220MF	20%	6.3V	
C504	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V	
C505	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V	
C506	1-135-091-00	TANTAL. CHIP 1MF	20%	16V	
C507	1-135-091-00	TANTAL. CHIP 1MF	20%	16V	
C508	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V	
C509	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V	
C510	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V	
C512	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V	
C513	1-128-399-11	ELECT 330MF	20%	16V	
C514	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V	
C515	1-162-927-11	CERAMIC CHIP 100PF	5%	50V	
C516	1-135-216-11	TANTAL. CHIP 10MF	20%	10V	
C518	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V	
C519	1-126-392-11	ELECT CHIP 100MF	20%	6.3V	

B

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION			REMARK
C520	1-162-923-11	CERAMIC CHIP	47PF	5% 50V	
C524	1-162-927-11	CERAMIC CHIP	100PF	5% 50V	
C525	1-126-391-11	ELECT CHIP	47MF	20% 6.3V	
C603	1-162-968-11	CERAMIC CHIP	0.0047MF	10% 50V	
C604	1-135-177-21	TANTAL. CHIP	1MF	20% 25V	
C605	1-126-394-11	ELECT CHIP	10MF	20% 16V	
C606	1-135-072-21	TANTAL. CHIP	0.22MF	20% 35V	
C607	1-135-181-21	TANTAL. CHIP	4.7MF	20% 6.3V	
C608	1-163-275-11	CERAMIC CHIP	0.001MF	5% 50V	
C609	1-135-145-11	TANTAL. CHIP	0.47MF	20% 35V	
C610	1-135-072-21	TANTAL. CHIP	0.22MF	20% 35V	
C612	1-127-518-11	ELECT(SOLID)	100MF	20% 16V	
C613	1-127-518-11	ELECT(SOLID)	100MF	20% 16V	
C614	1-127-518-11	ELECT(SOLID)	100MF	20% 16V	
C615	1-162-968-11	CERAMIC CHIP	0.0047MF	10% 50V	
C616	1-162-962-11	CERAMIC CHIP	470PF	10% 50V	
C617	1-126-396-11	ELECT CHIP	47MF	20% 16V	
C618	1-162-962-11	CERAMIC CHIP	470PF	10% 50V	
C619	1-162-968-11	CERAMIC CHIP	0.0047MF	10% 50V	
C620	1-164-162-11	CERAMIC CHIP	100PF	5% 100V	
C621	1-164-215-11	CERAMIC CHIP	68PF	5% 500V	
C622	1-162-962-11	CERAMIC CHIP	470PF	10% 50V	
C623	1-162-968-11	CERAMIC CHIP	0.0047MF	10% 50V	
C624	1-126-405-11	ELECT CHIP	10MF	20% 50V	
C625	1-162-968-11	CERAMIC CHIP	0.0047MF	10% 50V	
C626	1-126-405-11	ELECT CHIP	10MF	20% 50V	
C627	1-164-162-11	CERAMIC CHIP	100PF	5% 100V	
C628	1-164-162-11	CERAMIC CHIP	100PF	5% 100V	
C629	1-162-962-11	CERAMIC CHIP	470PF	10% 50V	
C630	1-162-968-11	CERAMIC CHIP	0.0047MF	10% 50V	
C631	1-127-518-11	ELECT(SOLID)	100MF	20% 16V	
C632	1-162-968-11	CERAMIC CHIP	0.0047MF	10% 50V	
C633	1-127-518-11	ELECT(SOLID)	100MF	20% 16V	
C634	1-164-162-11	CERAMIC CHIP	100PF	5% 100V	
C635	1-164-162-11	CERAMIC CHIP	100PF	5% 100V	
C636	1-162-962-11	CERAMIC CHIP	470PF	10% 50V	
C637	1-162-968-11	CERAMIC CHIP	0.0047MF	10% 50V	
C638	1-127-518-11	ELECT(SOLID)	100MF	20% 16V	
C639	1-162-968-11	CERAMIC CHIP	0.0047MF	10% 50V	
C640	1-128-414-21	ELECT CHIP	220MF	20% 6.3V	
C652	1-126-398-11	ELECT CHIP	4.7MF	20% 35V	
C653	1-162-968-11	CERAMIC CHIP	0.0047MF	10% 50V	
C654	1-162-968-11	CERAMIC CHIP	0.0047MF	10% 50V	
C658	1-162-968-11	CERAMIC CHIP	0.0047MF	10% 50V	
C660	1-162-970-11	CERAMIC CHIP	0.01MF	10% 25V	
C661	1-126-396-11	ELECT CHIP	47MF	20% 16V	
C664	1-135-177-21	TANTAL. CHIP	1MF	20% 25V	
C1601	1-127-518-11	ELECT(SOLID)	100MF	20% 16V	
C1602	1-162-968-11	CERAMIC CHIP	0.0047MF	10% 50V	
C1603	1-135-070-00	TANTAL. CHIP	0.1MF	20% 35V	
C1604	1-162-968-11	CERAMIC CHIP	0.0047MF	10% 50V	
C1605	1-127-518-11	ELECT(SOLID)	100MF	20% 16V	
C1606	1-135-091-00	TANTAL. CHIP	1MF	20% 16V	
C1607	1-135-155-21	TANTAL. CHIP	4.7MF	20% 16V	
C1608	1-135-149-21	TANTAL. CHIP	2.2MF	20% 10V	
C1609	1-104-512-11	CERAMIC	22PF	5% 6KV	
C1610	1-104-512-11	CERAMIC	22PF	5% 6KV	
C1611	1-137-331-81	FILM CHIP	0.047MF	2% 16V	
C1612	1-163-809-11	CERAMIC CHIP	0.047MF	10% 25V	
C1613	1-104-514-11	FILM	0.22MF	10% 250V	
C1614	1-128-304-11	ELECT CHIP	330MF	20% 16V	
C1615	1-135-091-00	TANTAL. CHIP	1MF	20% 16V	

REF.NO.	PART NO.	DESCRIPTION	REMARK
		<FILTER BLOCK>	
CM301	1-466-856-11	FILTER BLOCK, COMB	
		<CONNECTOR>	
CN001	1-573-853-31	CONNECTOR, FPC/FFC 20P	
CN002	1-695-584-11	CONNECTOR, FPC/FFC 10P	
CN003	*1-569-035-11	CONNECTOR, FPC (ZIF) 30P	
CN005	1-506-467-11	PIN, CONNECTOR 2P	
CN006	1-506-471-11	PIN, CONNECTOR 6P	
CN007	1-506-467-11	PIN, CONNECTOR 2P	
CN008	1-695-835-11	SOCKET, CONNECTOR 2P	
CN010	1-566-532-11	CONNECTOR, FPC (ZIF) 16P	
CN011	1-506-471-11	PIN, CONNECTOR 6P	
CN012	1-506-481-11	PIN, CONNECTOR 2P	
		<DIODE>	
D301	8-719-404-46	DIODE MA110	
D302	8-719-404-46	DIODE MA110	
D306	8-719-404-46	DIODE MA110	
D401	8-719-404-46	DIODE MA110	
D402	8-719-404-46	DIODE MA110	
D403	8-719-158-57	DIODE RD15S-B2	
D404	8-719-158-57	DIODE RD15S-B2	
D504	8-719-420-51	DIODE MA729	
D505	8-719-420-51	DIODE MA729	
D507	8-719-404-46	DIODE MA110	
D508	8-719-420-51	DIODE MA729	
D509	8-719-420-51	DIODE MA729	
D510	8-719-420-51	DIODE MA729	
D511	8-719-158-21	DIODE RD6.2S-B2	
D512	8-719-158-21	DIODE RD6.2S-B2	
D513	8-719-158-57	DIODE RD15S-B2	
D514	8-719-158-21	DIODE RD6.2S-B2	
D515	8-719-158-21	DIODE RD6.2S-B2	
D516	8-719-158-79	DIODE RD27S-B	
D517	8-719-158-21	DIODE RD6.2S-B2	
D601	8-719-988-76	DIODE SC902-2	
D602	8-719-988-72	DIODE SC802-06	
D603	8-719-988-72	DIODE SC802-06	
D608	8-719-404-46	DIODE MA110	
D609	8-719-028-74	DIODE NSQ03A04	
D610	8-719-028-74	DIODE NSQ03A04	
D612	8-719-404-46	DIODE MA110	
D614	8-719-988-72	DIODE SC802-06	
D615	8-719-158-41	DIODE RD10S-B2	
D1601	8-719-988-72	DIODE SC802-06	
D1602	8-719-988-72	DIODE SC802-06	
D1603	8-719-404-46	DIODE MA110	
D1604	8-719-404-46	DIODE MA110	
		<DELAY LINE>	
DL301	1-415-835-11	DELAY LINE, GLASS	
DL302	1-402-769-11	DELAY LINE	
DL303	1-402-771-11	DELAY LINE	
DL304	1-402-768-11	DELAY LINE	
DL305	1-402-770-11	DELAY LINE	
		<FUSE>	
F401	⚠1-576-220-21	FUSE, CHIP 0.8A/125V	
F1601	⚠1-576-213-21	FUSE, CHIP 1.6A/125V	

REF.NO.	PART NO.	DESCRIPTION	REMARK
		<FILTER>	
FL601	1-236-071-11	ENCAPSULATED COMPONENT	
		<IC>	
IC301	8-759-082-73	IC TA8795AF	
IC303	8-759-932-67	IC BU4053BF	
IC304	8-759-710-07	IC NJM2234M	
IC401	8-752-050-24	IC CXA1263AM	
IC402	8-759-701-54	IC NJM2073D	
IC501	8-759-234-85	IC TA8696F	
IC502	8-759-008-79	IC MC14011BF	
IC601	8-759-945-17	IC MB3775PF	
IC1601	8-759-995-27	IC MB3776APF	
IC1602	8-759-906-22	IC MB3759PF	
		<COIL>	
L301	1-412-031-11	INDUCTOR CHIP 47UH	
L304	1-410-391-11	INDUCTOR CHIP 68UH	
L306	1-410-379-31	INDUCTOR CHIP 6.8UH	
L308	1-412-034-11	INDUCTOR CHIP 330UH	
L309	1-412-031-11	INDUCTOR CHIP 47UH	
L313	1-410-384-31	INDUCTOR CHIP 18UH	
L315	1-412-031-11	INDUCTOR CHIP 47UH	
L401	1-543-775-11	FILTER, EMI	
L402	1-543-775-11	FILTER, EMI	
L501	1-412-033-11	INDUCTOR CHIP 220UH	
L502	1-412-034-11	INDUCTOR CHIP 330UH	
L503	1-412-034-11	INDUCTOR CHIP 330UH	
L601	1-402-767-21	COIL, CHOKE 10UH	
L604	1-412-364-11	INDUCTOR 0UH	
L605	1-412-029-11	INDUCTOR CHIP 10UH	
L607	1-412-364-11	INDUCTOR 0UH	
L609	1-412-029-11	INDUCTOR CHIP 10UH	
L610	1-412-364-11	INDUCTOR 0UH	
L611	1-412-029-11	INDUCTOR CHIP 10UH	
L613	1-412-029-11	INDUCTOR CHIP 10UH	
L615	1-412-364-11	INDUCTOR 0UH	
L619	1-412-364-11	INDUCTOR 0UH	
L620	1-412-364-11	INDUCTOR 0UH	
L621	1-412-364-11	INDUCTOR 0UH	
L1601	1-402-767-21	COIL, CHOKE 10UH	
L1602	1-402-791-11	COIL, CHOKE 39UH	
L1603	1-412-026-11	INDUCTOR CHIP 1UH	
L1604	1-412-539-41	INDUCTOR 150UH	
L1605	1-412-539-41	INDUCTOR 150UH	
L1611	1-412-026-11	INDUCTOR CHIP 1UH	
		<TRANSISTOR>	
Q301	8-729-140-63	TRANSISTOR 2SA1611-M5M6	
Q302	8-729-140-63	TRANSISTOR 2SA1611-M5M6	
Q304	8-729-117-32	TRANSISTOR 2SC4177-L6	
Q306	8-729-117-32	TRANSISTOR 2SC4177-L6	
Q307	8-729-117-32	TRANSISTOR 2SC4177-L6	
Q308	8-729-140-63	TRANSISTOR 2SA1611-M5M6	
Q309	8-729-905-99	TRANSISTOR DTC114TU	
Q310	8-729-140-63	TRANSISTOR 2SA1611-M5M6	
Q311	8-729-905-18	TRANSISTOR DTC144EU	
Q314	8-729-140-63	TRANSISTOR 2SA1611-M5M6	
Q316	8-729-905-18	TRANSISTOR DTC144EU	
Q318	8-729-905-18	TRANSISTOR DTC144EU	
Q321	8-729-905-99	TRANSISTOR DTC114TU	
Q322	8-729-905-18	TRANSISTOR DTC144EU	
Q323	8-729-905-18	TRANSISTOR DTC144EU	
Q324	8-729-905-12	TRANSISTOR DTA144EU	
Q325	8-729-905-12	TRANSISTOR DTA144EU	
Q326	8-729-905-18	TRANSISTOR DTC144EU	
Q327	8-729-905-18	TRANSISTOR DTC144EU	
Q328	8-729-117-32	TRANSISTOR 2SC4177-L6	
Q329	8-729-140-63	TRANSISTOR 2SA1611-M5M6	
Q330	8-729-140-63	TRANSISTOR 2SA1611-M5M6	
Q331	8-729-905-18	TRANSISTOR DTC144EU	
Q401	8-729-117-32	TRANSISTOR 2SC4177-L6	
Q403	8-729-140-63	TRANSISTOR 2SA1611-M5M6	
Q405	8-729-140-75	TRANSISTOR 2SD999-CL	
Q407	8-729-924-36	TRANSISTOR DTC143EU	
Q408	8-729-117-32	TRANSISTOR 2SC4177-L6	
Q501	8-729-117-32	TRANSISTOR 2SC4177-L6	
Q502	8-729-101-07	TRANSISTOR 2SB798-DL	
Q503	8-729-140-75	TRANSISTOR 2SD999-CL	
Q504	8-729-117-32	TRANSISTOR 2SC4177-L6	
Q506	8-729-117-32	TRANSISTOR 2SC4177-L6	
Q507	8-729-140-63	TRANSISTOR 2SA1611-M5M6	
Q508	8-729-140-63	TRANSISTOR 2SA1611-M5M6	
Q509	8-729-140-63	TRANSISTOR 2SA1611-M5M6	
Q601	8-729-905-12	TRANSISTOR DTA144EU	
Q602	8-729-905-18	TRANSISTOR DTC144EU	
Q603	8-729-923-99	TRANSISTOR DTA114YU	
Q605	8-729-321-79	TRANSISTOR 2SK1094	
Q606	8-729-117-32	TRANSISTOR 2SC4177-L6	
Q607	8-729-140-63	TRANSISTOR 2SA1611-M5M6	
Q608	8-729-140-63	TRANSISTOR 2SA1611-M5M6	
Q1601	8-729-321-79	TRANSISTOR 2SK1094	
Q1602	8-729-920-99	TRANSISTOR DTA114EU	
Q1603	8-729-117-32	TRANSISTOR 2SC4177-L6	
Q1604	8-729-208-96	TRANSISTOR 2SA1242-Y	
Q1605	8-729-807-50	TRANSISTOR 2SD1623-R	
Q1606	8-729-807-50	TRANSISTOR 2SD1623-R	
Q1607	8-729-905-12	TRANSISTOR DTA144EU	
Q1608	8-729-905-18	TRANSISTOR DTC144EU	
Q1609	8-729-905-96	TRANSISTOR DTA114TU	
Q1610	8-729-117-32	TRANSISTOR 2SC4177-L6	
Q1611	8-729-117-32	TRANSISTOR 2SC4177-L6	
		<RESISTOR>	
R301	1-216-845-11	METAL GLAZE 100K 5% 1/16W	
R304	1-216-864-11	METAL GLAZE 0 5% 1/16W	
R306	1-216-864-11	METAL GLAZE 0 5% 1/16W	
R307	1-216-831-11	METAL GLAZE 6.8K 5% 1/16W	
R310	1-216-846-11	METAL GLAZE 120K 5% 1/16W	
R311	1-216-827-11	METAL GLAZE 3.3K 5% 1/16W	
R313	1-218-700-11	METAL CHIP 2.2K 0.50% 1/16W	
R315	1-216-864-11	METAL GLAZE 0 5% 1/16W	
R316	1-216-820-11	METAL GLAZE 820 5% 1/16W	
R317	1-218-688-11	METAL CHIP 680 0.50% 1/16W	
R318	1-218-700-11	METAL CHIP 2.2K 0.50% 1/16W	
R319	1-218-706-11	METAL CHIP 3.9K 0.50% 1/16W	
R320	1-216-839-11	METAL GLAZE 33K 5% 1/16W	
R321	1-216-837-11	METAL GLAZE 22K 5% 1/16W	
R324	1-216-821-11	METAL GLAZE 1K 5% 1/16W	
R325	1-216-829-11	METAL GLAZE 4.7K 5% 1/16W	
R326	1-216-830-11	METAL GLAZE 5.6K 5% 1/16W	
R327	1-216-864-11	METAL GLAZE 0 5% 1/16W	

B

REF.NO.	PART NO.	DESCRIPTION				REMARK
R328	1-216-821-11	METAL GLAZE	1K	5%	1/16W	
R329	1-218-706-11	METAL CHIP	3.9K	0.50%	1/16W	
R330	1-216-823-11	METAL CHIP	1.5K	0.50%	1/16W	
R331	1-216-809-11	METAL GLAZE	100	5%	1/16W	
R334	1-216-825-11	METAL GLAZE	2.2K	5%	1/16W	
R335	1-216-829-11	METAL GLAZE	4.7K	5%	1/16W	
R338	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R339	1-216-821-11	METAL GLAZE	1K	5%	1/16W	
R341	1-216-833-11	METAL GLAZE	10K	5%	1/16W	
R342	1-216-828-11	METAL GLAZE	3.9K	5%	1/16W	
R346	1-216-821-11	METAL GLAZE	1K	5%	1/16W	
R347	1-216-823-11	METAL GLAZE	1.5K	5%	1/16W	
R348	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R350	1-216-833-11	METAL GLAZE	10K	5%	1/16W	
R351	1-216-830-11	METAL GLAZE	5.6K	5%	1/16W	
R353	1-216-827-11	METAL GLAZE	3.3K	5%	1/16W	
R355	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R358	1-216-830-11	METAL GLAZE	5.6K	5%	1/16W	
R359	1-216-833-11	METAL GLAZE	10K	5%	1/16W	
R360	1-216-813-11	METAL GLAZE	220	5%	1/16W	
R361	1-216-813-11	METAL GLAZE	220	5%	1/16W	
R362	1-216-846-11	METAL GLAZE	120K	5%	1/16W	
R364	1-216-813-11	METAL GLAZE	220	5%	1/16W	
R365	1-216-833-11	METAL GLAZE	10K	5%	1/16W	
R376	1-220-397-91	METAL GLAZE	4.7M	5%	1/16W	
R377	1-216-816-11	METAL GLAZE	390	5%	1/16W	
R378	1-216-825-11	METAL GLAZE	2.2K	5%	1/16W	
R379	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R380	1-216-821-11	METAL GLAZE	1K	5%	1/16W	
R383	1-216-829-11	METAL GLAZE	4.7K	5%	1/16W	
R384	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R386	1-220-397-91	METAL GLAZE	4.7M	5%	1/16W	
R387	1-220-397-91	METAL GLAZE	4.7M	5%	1/16W	
R389	1-216-833-11	METAL GLAZE	10K	5%	1/16W	
R390	1-216-857-11	METAL GLAZE	1M	5%	1/16W	
R391	1-216-837-11	METAL GLAZE	22K	5%	1/16W	
R392	1-216-825-11	METAL GLAZE	2.2K	5%	1/16W	
R393	1-216-837-11	METAL GLAZE	22K	5%	1/16W	
R394	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R395	1-216-821-11	METAL GLAZE	1K	5%	1/16W	
R398	1-216-816-11	METAL GLAZE	390	5%	1/16W	
R399	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R401	1-216-824-11	METAL GLAZE	1.8K	5%	1/16W	
R402	1-216-813-11	METAL GLAZE	220	5%	1/16W	
R403	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R405	1-216-815-11	METAL GLAZE	330	5%	1/16W	
R406	1-216-841-11	METAL GLAZE	47K	5%	1/16W	
R407	1-216-841-11	METAL GLAZE	47K	5%	1/16W	
R408	1-216-134-00	METAL GLAZE	2.2	5%	1/8W	
R409	1-216-134-00	METAL GLAZE	2.2	5%	1/8W	
R412	1-216-809-11	METAL GLAZE	100	5%	1/16W	
R413	1-216-809-11	METAL GLAZE	100	5%	1/16W	
R414	1-216-827-11	METAL GLAZE	3.3K	5%	1/16W	
R415	1-216-839-11	METAL GLAZE	33K	5%	1/16W	
R416	1-216-815-11	METAL GLAZE	330	5%	1/16W	
R417	1-220-258-91	METAL GLAZE	100	5%	1/4W	
R418	1-216-809-11	METAL GLAZE	100	5%	1/16W	
R420	1-216-833-11	METAL GLAZE	10K	5%	1/16W	
R421	1-216-833-11	METAL GLAZE	10K	5%	1/16W	
R422	1-216-829-11	METAL GLAZE	4.7K	5%	1/16W	
R423	1-216-841-11	METAL GLAZE	47K	5%	1/16W	
R424	1-216-845-11	METAL GLAZE	100K	5%	1/16W	
R425	1-216-841-11	METAL GLAZE	47K	5%	1/16W	
R501	1-216-837-11	METAL GLAZE	22K	5%	1/16W	
R502	1-216-837-11	METAL GLAZE	22K	5%	1/16W	
R503	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R504	1-216-809-11	METAL GLAZE	100	5%	1/16W	
R505	1-216-809-11	METAL GLAZE	100	5%	1/16W	
R506	1-216-809-11	METAL GLAZE	100	5%	1/16W	
R507	1-216-833-11	METAL GLAZE	10K	5%	1/16W	
R508	1-216-835-11	METAL GLAZE	15K	5%	1/16W	
R509	1-216-828-11	METAL GLAZE	3.9K	5%	1/16W	
R510	1-216-833-11	METAL GLAZE	10K	5%	1/16W	
R511	1-216-834-11	METAL GLAZE	12K	5%	1/16W	
R512	1-216-809-11	METAL GLAZE	100	5%	1/16W	
R514	1-216-828-11	METAL GLAZE	3.9K	5%	1/16W	
R515	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R516	1-216-841-11	METAL GLAZE	47K	5%	1/16W	
R517	1-216-841-11	METAL GLAZE	47K	5%	1/16W	
R520	1-216-809-11	METAL GLAZE	100	5%	1/16W	
R521	1-216-809-11	METAL GLAZE	100	5%	1/16W	
R522	1-216-809-11	METAL GLAZE	100	5%	1/16W	
R531	1-216-833-11	METAL GLAZE	10K	5%	1/16W	
R532	1-216-833-11	METAL GLAZE	10K	5%	1/16W	
R533	1-216-833-11	METAL GLAZE	10K	5%	1/16W	
R537	1-216-809-11	METAL GLAZE	100	5%	1/16W	
R538	1-216-809-11	METAL GLAZE	100	5%	1/16W	
R539	1-216-809-11	METAL GLAZE	100	5%	1/16W	
R540	1-216-833-11	METAL GLAZE	10K	5%	1/16W	
R541	1-216-833-11	METAL GLAZE	10K	5%	1/16W	
R544	1-216-824-11	METAL GLAZE	1.8K	5%	1/16W	
R545	1-216-827-11	METAL GLAZE	3.3K	5%	1/16W	
R546	1-216-823-11	METAL GLAZE	1.5K	5%	1/16W	
R548	1-216-821-11	METAL GLAZE	1K	5%	1/16W	
R549	1-216-821-11	METAL GLAZE	1K	5%	1/16W	
R550	1-216-819-11	METAL GLAZE	680	5%	1/16W	
R551	1-216-833-11	METAL GLAZE	10K	5%	1/16W	
R553	1-216-821-11	METAL GLAZE	1K	5%	1/16W	
R554	1-216-821-11	METAL GLAZE	1K	5%	1/16W	
R555	1-216-819-11	METAL GLAZE	680	5%	1/16W	
R556	1-216-833-11	METAL GLAZE	10K	5%	1/16W	
R558	1-216-821-11	METAL GLAZE	1K	5%	1/16W	
R559	1-216-821-11	METAL GLAZE	1K	5%	1/16W	
R560	1-216-819-11	METAL GLAZE	680	5%	1/16W	
R561	1-216-833-11	METAL GLAZE	10K	5%	1/16W	
R562	1-216-849-11	METAL GLAZE	220K	5%	1/16W	
R601	1-216-840-11	METAL GLAZE	39K	5%	1/16W	
R602	1-216-681-11	METAL CHIP	18K	0.50%	1/10W	
R603	1-218-477-11	METAL GLAZE	220	5%	1/4W	
R604	1-216-839-11	METAL GLAZE	33K	5%	1/16W	
R605	1-216-837-11	METAL GLAZE	22K	5%	1/16W	
R606	1-216-834-11	METAL GLAZE	12K	5%	1/16W	
R607	1-216-849-11	METAL GLAZE	220K	5%	1/16W	
R608	1-216-821-11	METAL GLAZE	1K	5%	1/16W	
R609	1-216-832-11	METAL GLAZE	8.2K	5%	1/16W	
R610	1-216-826-11	METAL GLAZE	2.7K	5%	1/16W	
R611	1-216-821-11	METAL GLAZE	1K	5%	1/16W	
R612	1-216-825-11	METAL GLAZE	2.2K	5%	1/16W	
R613	1-216-818-11	METAL GLAZE	560	5%	1/16W	
R614	1-216-845-11	METAL GLAZE	100K	5%	1/16W	
R615	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R616	1-216-846-11	METAL GLAZE	120K	5%	1/16W	
R619	1-220-281-91	METAL GLAZE	4.7K	5%	1/4W	
R620	1-220-281-91	METAL GLAZE	4.7K	5%	1/4W	
R621	1-220-265-91	METAL GLAZE	1.2K	5%	1/4W	
R622	1-216-200-00	METAL GLAZE	1.2K	5%	1/8W	
R630	1-216-841-11	METAL GLAZE	47K	5%	1/16W	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

REF.NO.	PART NO.	DESCRIPTION				REMARK
R631	1-218-747-11	METAL CHIP	200K	0.50%	1/16W	
R632	1-218-747-11	METAL CHIP	200K	0.50%	1/16W	
R633	1-216-821-11	METAL GLAZE	1K	5%	1/16W	
R634	1-218-740-11	METAL CHIP	100K	0.50%	1/16W	
R638	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R640	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R641	1-216-829-11	METAL GLAZE	4.7K	5%	1/16W	
R1301	1-216-841-11	METAL GLAZE	47K	5%	1/16W	
R1304	1-216-829-11	METAL GLAZE	4.7K	5%	1/16W	
R1305	1-216-829-11	METAL GLAZE	4.7K	5%	1/16W	
R1309	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R1315	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R1316	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R1317	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R1319	1-216-829-11	METAL GLAZE	4.7K	5%	1/16W	
R1320	1-216-829-11	METAL GLAZE	4.7K	5%	1/16W	
R1321	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R1322	1-216-829-11	METAL GLAZE	4.7K	5%	1/16W	
R1324	1-216-822-11	METAL GLAZE	1.2K	5%	1/16W	
R1330	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R1331	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R1335	1-216-819-11	METAL GLAZE	680	5%	1/16W	
R1336	1-216-823-11	METAL GLAZE	1.5K	5%	1/16W	
R1337	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R1339	1-216-821-11	METAL GLAZE	1K	5%	1/16W	
R1340	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R1344	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R1345	1-216-833-11	METAL GLAZE	10K	5%	1/16W	
R1346	1-216-809-11	METAL GLAZE	100	5%	1/16W	
R1347	1-216-826-11	METAL GLAZE	2.7K	5%	1/16W	
R1348	1-216-833-11	METAL GLAZE	10K	5%	1/16W	
R1349	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R1350	1-216-821-11	METAL GLAZE	1K	5%	1/16W	
R1351	1-216-821-11	METAL GLAZE	1K	5%	1/16W	
R1352	1-216-821-11	METAL GLAZE	1K	5%	1/16W	
R1353	1-216-809-11	METAL GLAZE	100	5%	1/16W	
R1354	1-216-831-11	METAL GLAZE	6.8K	5%	1/16W	
R1601	1-216-821-11	METAL GLAZE	1K	5%	1/16W	
R1602	1-216-820-11	METAL GLAZE	820	5%	1/16W	
R1603	1-216-816-11	METAL GLAZE	390	5%	1/16W	
R1604	1-218-233-11	METAL GLAZE	47	5%	1/2W	
R1605	1-216-834-11	METAL GLAZE	12K	5%	1/16W	
R1606	1-216-853-11	METAL GLAZE	470K	5%	1/16W	
R1607	1-216-855-11	METAL GLAZE	680K	5%	1/16W	
R1608	1-216-833-11	METAL GLAZE	10K	5%	1/16W	
R1609	1-218-883-11	METAL CHIP	33K	0.50%	1/16W	
R1610	1-216-198-00	METAL GLAZE	1K	5%	1/8W	
R1611	1-216-202-00	METAL GLAZE	1.5K	5%	1/8W	
R1612	1-216-202-00	METAL GLAZE	1.5K	5%	1/8W	
R1613	1-216-817-11	METAL GLAZE	470	5%	1/16W	
R1614	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W	
R1615	1-216-809-11	METAL GLAZE	100	5%	1/16W	
R1616	1-216-841-11	METAL GLAZE	47K	5%	1/16W	
R1617	1-216-845-11	METAL GLAZE	100K	5%	1/16W	
R1618	1-216-845-11	METAL GLAZE	100K	5%	1/16W	
R1619	1-216-841-11	METAL GLAZE	47K	5%	1/16W	
R1620	1-216-833-11	METAL GLAZE	10K	5%	1/16W	
R1621	1-216-834-11	METAL GLAZE	12K	5%	1/16W	
R1622	1-218-233-11	METAL GLAZE	47	5%	1/2W	

<VARIABLE RESISTOR>

RV301	1-238-090-11	RES, ADJ CERMET	10K
RV302	1-238-090-11	RES, ADJ CERMET	10K
RV305	1-238-090-11	RES, ADJ CERMET	10K
RV307	1-238-090-11	RES, ADJ CERMET	10K
RV308	1-238-087-11	RES, ADJ CERMET	1K
RV309	1-238-091-11	RES, ADJ CERMET	22K
RV501	1-238-091-11	RES, ADJ CERMET	22K
RV502	1-238-091-11	RES, ADJ CERMET	22K
RV503	1-238-091-11	RES, ADJ CERMET	22K
RV506	1-238-091-11	RES, ADJ CERMET	22K
RV508	1-238-090-11	RES, ADJ CERMET	10K
RV509	1-238-090-11	RES, ADJ CERMET	10K
RV601	1-238-087-11	RES, ADJ CERMET	1K
RV1601	1-238-090-11	RES, ADJ CERMET	10K
RV1602	1-238-091-11	RES, ADJ CERMET	22K

<TRANSFORMER>

T303	1-402-721-11	COIL	
T601	1-423-370-11	TRANSFORMER, DC-DC CONVERTER	
T1601⚠	1-423-368-11	TRANSFORMER, INVERTER	
T1602⚠	1-423-368-11	TRANSFORMER, INVERTER	

<CRYSTAL>

X301	1-577-706-11	VIBRATOR, CERAMIC
X302	1-567-505-11	OSCILLATOR, CRYSTAL
X303	1-567-504-11	OSCILLATOR, CRYSTAL

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*A-1275-110-A	Q BOARD, COMPLETE	
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<CAPACITOR>

C701	1-126-396-11	ELECT CHIP	47MF	20%	16V
C702	1-126-396-11	ELECT CHIP	47MF	20%	16V
C703	1-126-396-11	ELECT CHIP	47MF	20%	16V
C704	1-126-396-11	ELECT CHIP	47MF	20%	16V
C705	1-126-396-11	ELECT CHIP	47MF	20%	16V
C706	1-126-396-11	ELECT CHIP	47MF	20%	16V
C707	1-126-396-11	ELECT CHIP	47MF	20%	16V
C708	1-126-396-11	ELECT CHIP	47MF	20%	16V
C709	1-126-401-11	ELECT CHIP	1MF	20%	50V
C710	1-126-401-11	ELECT CHIP	1MF	20%	50V
C711	1-126-401-11	ELECT CHIP	1MF	20%	50V
C712	1-126-401-11	ELECT CHIP	1MF	20%	50V
C713	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C714	1-135-091-00	TANTAL. CHIP	1MF	20%	16V
C715	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C716	1-135-159-21	TANTAL. CHIP	10MF	20%	16V
C717	1-135-159-21	TANTAL. CHIP	10MF	20%	16V
C718	1-135-159-21	TANTAL. CHIP	10MF	20%	16V
C719	1-135-159-21	TANTAL. CHIP	10MF	20%	16V
C720	1-135-159-21	TANTAL. CHIP	10MF	20%	16V
C721	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C722	1-135-159-21	TANTAL. CHIP	10MF	20%	16V
C723	1-128-416-21	ELECT CHIP	100MF	20%	16V
C724	1-135-145-11	TANTAL. CHIP	0.47MF	20%	25V
C725	1-135-145-11	TANTAL. CHIP	0.47MF	20%	25V
C726	1-135-145-11	TANTAL. CHIP	0.47MF	20%	25V
C727	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C728	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C729	1-128-304-11	ELECT CHIP	330MF	20%	16V
C730	1-128-593-11	ELECT CHIP	0.47MF	20%	50V
C731	1-163-275-11	CERAMIC CHIP	0.001MF	5%	50V

Q

REF.NO.	PART NO.	DESCRIPTION		REMARK
C732	1-135-180-21	TANTAL. CHIP 3.3MF	20%	10V
C733	1-163-135-00	CERAMIC CHIP 560PF	5%	50V
C734	1-163-016-00	CERAMIC CHIP 0.0039MF	10%	50V
C735	1-135-145-11	TANTAL. CHIP 0.47MF	20%	25V
C736	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C737	1-135-091-00	TANTAL. CHIP 1MF	20%	16V
C738	1-128-416-21	ELECT CHIP 100MF	20%	16V
C739	1-163-135-00	CERAMIC CHIP 560PF	5%	50V
C740	1-126-396-11	ELECT CHIP 47MF	20%	16V
C741	1-128-416-21	ELECT CHIP 100MF	20%	16V
C742	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C743	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C744	1-128-593-11	ELECT CHIP 0.47MF	20%	50V
C745	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C746	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C747	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C748	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C749	1-128-414-21	ELECT CHIP 220MF	20%	6.3V
C750	1-163-121-00	CERAMIC CHIP 150PF	5%	50V
C751	1-163-121-00	CERAMIC CHIP 150PF	5%	50V
C752	1-163-121-00	CERAMIC CHIP 150PF	5%	50V
C753	1-135-159-21	TANTAL. CHIP 10MF	20%	16V
C754	1-128-304-11	ELECT CHIP 330MF	20%	16V

<CONNECTOR>

CN706	*1-569-035-11	CONNECTOR, FPC (ZIF) 30P	

<DIODE>

D701	8-719-404-46	DIODE MA110	
D702	8-719-158-21	DIODE RD6.2S-B2	
D703	8-719-158-21	DIODE RD6.2S-B2	
D704	8-719-158-21	DIODE RD6.2S-B2	
D705	8-719-158-21	DIODE RD6.2S-B2	
D706	8-719-158-21	DIODE RD6.2S-B2	
D707	8-719-158-21	DIODE RD6.2S-B2	
D708	8-719-158-21	DIODE RD6.2S-B2	
D709	8-719-158-21	DIODE RD6.2S-B2	
D710	8-719-158-21	DIODE RD6.2S-B2	
D711	8-719-158-21	DIODE RD6.2S-B2	
D712	8-719-158-21	DIODE RD6.2S-B2	
D713	8-719-158-21	DIODE RD6.2S-B2	
D714	8-719-158-21	DIODE RD6.2S-B2	
D715	8-719-158-21	DIODE RD6.2S-B2	
D716	8-719-158-21	DIODE RD6.2S-B2	
D717	8-719-158-21	DIODE RD6.2S-B2	

<IC>

IC701	8-759-008-67	IC MC14066BF	
IC702	8-759-710-07	IC NJM2234M	
IC703	8-759-932-67	IC BU4053BF	
IC704	8-759-932-67	IC BU4053BF	
IC705	8-752-010-00	IC CX20100	
IC707	8-759-008-67	IC MC14066BF	
IC708	8-759-514-57	IC BA7046F	
IC709	8-759-008-67	IC MC14066BF	
IC710	8-759-008-67	IC MC14066BF	
IC711	8-759-098-00	IC MM1108XFF	
IC713	8-759-909-70	IC CX23025	

REF.NO.	PART NO.	DESCRIPTION			REMARK
		<COIL>			
L701	1-412-034-11	INDUCTOR CHIP 330UH			
L702	1-412-032-11	INDUCTOR CHIP 100UH			
L703	1-412-029-11	INDUCTOR CHIP 10UH			
L704	1-412-029-11	INDUCTOR CHIP 10UH			
L705	1-412-032-11	INDUCTOR CHIP 100UH			
		<TRANSISTOR>			
Q701	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q702	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q703	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q704	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q705	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q706	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q707	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q708	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q709	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q710	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q711	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q712	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q713	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q714	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q715	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q716	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q717	8-729-230-46	TRANSISTOR 2SA1162-YG			
Q718	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q719	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q720	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q721	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q722	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q723	8-729-230-46	TRANSISTOR 2SA1162-YG			
Q724	8-729-230-46	TRANSISTOR 2SA1162-YG			
Q725	8-729-230-46	TRANSISTOR 2SA1162-YG			
Q726	8-729-230-46	TRANSISTOR 2SA1162-YG			
Q727	8-729-230-46	TRANSISTOR 2SA1162-YG			
		<RESISTOR>			
R701	1-216-022-00	METAL GLAZE	75	5%	1/10W
R702	1-216-022-00	METAL GLAZE	75	5%	1/10W
R703	1-216-022-00	METAL GLAZE	75	5%	1/10W
R704	1-216-022-00	METAL GLAZE	75	5%	1/10W
R705	1-216-022-00	METAL GLAZE	75	5%	1/10W
R706	1-216-022-00	METAL GLAZE	75	5%	1/10W
R707	1-216-022-00	METAL GLAZE	75	5%	1/10W
R708	1-216-025-00	METAL GLAZE	100	5%	1/10W
R709	1-216-025-00	METAL GLAZE	100	5%	1/10W
R710	1-216-025-00	METAL GLAZE	100	5%	1/10W
R711	1-216-025-00	METAL GLAZE	100	5%	1/10W
R712	1-216-025-00	METAL GLAZE	100	5%	1/10W
R713	1-216-025-00	METAL GLAZE	100	5%	1/10W
R714	1-216-025-00	METAL GLAZE	100	5%	1/10W
R715	1-216-025-00	METAL GLAZE	100	5%	1/10W
R716	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R717	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R718	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R719	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R720	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R721	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R722	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R723	1-216-025-00	METAL GLAZE	100	5%	1/10W
R724	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R725	1-216-081-00	METAL GLAZE	22K	5%	1/10W

REF.NO.	PART NO.	DESCRIPTION				REMARK
R726	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R727	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R728	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R729	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R730	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R731	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R732	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R733	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R734	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R735	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R736	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R737	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R738	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R739	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R740	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R741	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R742	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R743	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R744	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R745	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R746	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R747	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R748	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R749	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R750	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R751	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R752	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R753	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R754	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R755	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R756	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R757	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R759	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R760	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R761	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R762	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R763	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R764	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R765	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R766	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R767	1-216-022-00	METAL GLAZE	75	5%	1/10W	
R768	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R769	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R770	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R771	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R772	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R773	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R774	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R793	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R794	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R795	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R796	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R797	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R798	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R799	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R1701	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R1702	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R1703	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R1704	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R1705	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R1706	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R1707	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1708	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R1709	1-216-699-11	METAL CHIP	100K	0.50%	1/10W	
R1710	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R1711	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R1712	1-216-101-00	METAL GLAZE	150K	5%	1/10W	
R1713	1-216-043-00	METAL GLAZE	560	5%	1/10W	
R1714	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1715	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1716	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1717	1-216-689-11	METAL GLAZE	39K	5%	1/10W	
R1718	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R1719	1-216-100-00	METAL GLAZE	130K	5%	1/10W	
R1720	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R1721	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1722	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1723	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R1724	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1725	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1726	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1727	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1728	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1729	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R1730	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R1731	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R1732	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1733	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1734	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1735	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R1736	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1737	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1738	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1739	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1740	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1741	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1742	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R1743	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R1744	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R1745	1-216-689-11	METAL GLAZE	39K	5%	1/10W	
R1746	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1747	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1748	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1749	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1750	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1751	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1752	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1753	1-216-095-00	METAL GLAZE	82K	5%	1/10W	
R1754	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1755	1-216-089-00	METAL GLAZE	47K	5%	1/10W	

<VARIABLE RESISTOR>

RV701	1-238-091-11	RES, ADJ CERMET 22K
RV702	1-238-091-11	RES, ADJ CERMET 22K
RV703	1-238-091-11	RES, ADJ CERMET 22K
RV704	1-238-091-11	RES, ADJ CERMET 22K
RV714	1-238-091-11	RES, ADJ CERMET 22K
RV715	1-238-091-11	RES, ADJ CERMET 22K
RV716	1-238-091-11	RES, ADJ CERMET 22K
RV717	1-238-091-11	RES, ADJ CERMET 22K
RV718	1-238-091-11	RES, ADJ CERMET 22K
RV719	1-238-091-11	RES, ADJ CERMET 22K

<SWITCH>

S701	1-571-428-11	SWITCH, SLIDE

FDL-X600

Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION				REMARK
		<TERMINAL BOARD>				
TB701	1-537-457-11	TERMINAL BOARD ASSY, I/O				
		**********				
	*A-1388-149-A	J1 BOARD, COMPLETE				
		**********				
		<CAPACITOR>				
C851	1-164-232-11	CERAMIC CHIP 0.01MF		10%	50V	
		<CONNECTOR>				
CN851	*1-691-781-11	CONNECTOR, FPC 10P				
CN852	1-691-000-11	CONNECTOR, BOARD TO BOARD 3P				
		<DIODE>				
D853	8-719-404-46	DIODE MA110				
D854	8-719-404-46	DIODE MA110				
D855	8-719-158-21	DIODE RD6.2S-B2				
D856	8-719-158-21	DIODE RD6.2S-B2				
D857	8-719-158-21	DIODE RD6.2S-B2				
		<JACK>				
J851	1-563-282-11	JACK, SMALL TYPE				
		<TRANSISTOR>				
Q851	8-729-230-49	TRANSISTOR 2SC2712-YG				
Q852	8-729-230-49	TRANSISTOR 2SC2712-YG				
Q853	8-729-900-51	TRANSISTOR DTA114TK				
Q854	8-729-902-99	TRANSISTOR DTC114TK				
Q855	8-729-900-53	TRANSISTOR DTC114EK				
Q856	8-729-900-53	TRANSISTOR DTC114EK				
		<RESISTOR>				
JR801	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR802	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR803	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR804	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR805	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR806	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR807	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR808	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR809	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR810	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR811	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR812	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR813	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR814	1-216-296-00	METAL GLAZE	0	5%	1/8W	
R852	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R853	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R854	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R855	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R858	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R859	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R860	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R861	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R862	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R863	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R864	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R865	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R866	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R867	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R868	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R869	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R870	1-216-025-00	METAL GLAZE	100	5%	1/10W	
		<SWITCH>				
S852	1-692-310-11	SWITCH, ROTARY				
S853	1-692-309-11	SWITCH, TOGGLE				
S854	1-692-309-11	SWITCH, TOGGLE				
		**********				
	*1-645-024-11	J2 BOARD				
		********				
		<FUSE>				
F602	⚠1-533-272-21	FUSE, CHIP 4A/125V				
F951	⚠1-533-272-21	FUSE, CHIP 4A/125V				
		<JACK>				
J951	1-580-525-11	JACK, EXTERNAL POWER				
		**********				
	*1-645-023-11	X BOARD				
		*******				
		<DIODE>				
D981	8-719-028-74	DIODE NSQ03A04				
D982	8-719-028-74	DIODE NSQ03A04				
		<FUSE>				
F603	⚠1-533-272-21	FUSE, CHIP 4A/125V				
		<JACK>				
J980	1-537-241-11	TERMINAL BOARD (BATTERY)				
		**********				
	*1-645-021-11	L BOARD				
		*******				
		<CONNECTOR>				
CN991	1-695-836-11	PLUG (CONNECTOR) 2P				
		<BACK LIGHT>				
FR991	⚠1-517-131-11	LIGHT, BACK				
		**********				
	*1-645-430-11	H BOARD				
		*******				

REF.NO.	PART NO.	DESCRIPTION			REMARK
		<CONNECTOR>			
CN881	1-573-051-11	PIN, CONNECTOR (PC BOARD) 3P			
		<DIODE>			
D881	8-719-812-41	DIODE TLR124			
D882	8-719-812-41	DIODE TLR124			
		<RESISTOR>			
R881	1-216-049-00	METAL GLAZE 1K	5%	1/10W	
R882	1-216-049-00	METAL GLAZE 1K	5%	1/10W	
		**********			
	*A-1394-397-A	U BOARD, COMPLETE			
		**********			
	4-037-889-01	HOLDER, LED			
		<CAPACITOR>			
C803	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C804	1-126-392-11	ELECT CHIP 100MF	20%	6.3V	
C805	1-163-275-11	CERAMIC CHIP 0.001MF	5%	50V	
C806	1-163-133-00	CERAMIC CHIP 470PF	5%	50V	
C807	1-163-275-11	CERAMIC CHIP 0.001MF	5%	50V	
C808	1-163-251-11	CERAMIC CHIP 100PF	5%	50V	
C809	1-137-306-11	FILM CHIP 0.1MF	5%	16V	
C810	1-137-306-11	FILM CHIP 0.1MF	5%	16V	
C811	1-163-275-11	CERAMIC CHIP 0.001MF	5%	50V	
C812	1-137-306-11	FILM CHIP 0.1MF	5%	16V	
C813	1-128-416-21	ELECT CHIP 100MF	20%	16V	
C814	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C815	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C816	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C817	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C818	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C819	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C820	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C821	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C822	1-135-091-00	TANTAL. CHIP 1MF	20%	16V	
C823	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C824	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C825	1-126-392-11	ELECT CHIP 100MF	20%	6.3V	
C826	1-163-275-11	CERAMIC CHIP 0.001MF	5%	50V	
C827	1-163-275-11	CERAMIC CHIP 0.001MF	5%	50V	
C828	1-163-251-11	CERAMIC CHIP 100PF	5%	50V	
C829	1-126-392-11	ELECT CHIP 100MF	20%	6.3V	
C830	1-163-133-00	CERAMIC CHIP 470PF	5%	50V	
		<CONNECTOR>			
CN801	1-573-853-31	CONNECTOR, FPC/FFC 20P			
		<DIODE>			
D801	8-719-812-43	DIODE TLG124A			
D802	8-719-404-46	DIODE MA110			
D803	8-719-158-21	DIODE RD6.2S-B2			
D804	8-719-158-21	DIODE RD6.2S-B2			
D805	8-719-158-21	DIODE RD6.2S-B2			
D806	8-719-404-46	DIODE MA110			

REF.NO.	PART NO.	DESCRIPTION			REMARK
		<IC>			
IC801	8-759-009-51	IC MC14538BF			
IC802	8-759-009-46	IC MC14528BF			
IC803	8-759-009-51	IC MC14538BF			
IC804	8-759-009-46	IC MC14528BF			
IC805	8-759-514-55	IC TK10682M			
IC806	8-759-008-82	IC MC14013BF			
IC807	8-759-009-46	IC MC14528BF			
		<COIL>			
L803	1-412-029-11	INDUCTOR CHIP 10UH			
		<TRANSISTOR>			
Q801	8-729-230-46	TRANSISTOR 2SA1162-YG			
Q802	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q804	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q805	8-729-230-46	TRANSISTOR 2SA1162-YG			
Q806	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q807	8-729-230-46	TRANSISTOR 2SA1162-YG			
Q808	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q809	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q810	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q811	8-729-902-99	TRANSISTOR DTC114TK			
Q812	8-729-902-99	TRANSISTOR DTC114TK			
Q813	8-729-230-49	TRANSISTOR 2SC2712-YG			
		<RESISTOR>			
R801	1-216-059-00	METAL GLAZE 2.7K	5%	1/10W	
R802	1-216-059-00	METAL GLAZE 2.7K	5%	1/10W	
R803	1-216-061-00	METAL GLAZE 3.3K	5%	1/10W	
R804	1-216-061-00	METAL GLAZE 3.3K	5%	1/10W	
R805	1-216-053-00	METAL GLAZE 1.5K	5%	1/10W	
R806	1-216-067-00	METAL GLAZE 5.6K	5%	1/10W	
R807	1-216-083-00	METAL GLAZE 27K	5%	1/10W	
R808	1-216-083-00	METAL GLAZE 27K	5%	1/10W	
R809	1-216-061-00	METAL GLAZE 3.3K	5%	1/10W	
R810	1-216-049-00	METAL GLAZE 1K	5%	1/10W	
R811	1-216-059-00	METAL GLAZE 2.7K	5%	1/10W	
R812	1-216-295-00	METAL GLAZE 0	5%	1/10W	
R813	1-216-295-00	METAL GLAZE 0	5%	1/10W	
R814	1-216-295-00	METAL GLAZE 0	5%	1/10W	
R815	1-216-049-00	METAL GLAZE 1K	5%	1/10W	
R816	1-216-025-00	METAL GLAZE 100	5%	1/10W	
R817	1-216-025-00	METAL GLAZE 100	5%	1/10W	
R818	1-216-025-00	METAL GLAZE 100	5%	1/10W	
R819	1-216-025-00	METAL GLAZE 100	5%	1/10W	
R820	1-216-089-00	METAL GLAZE 47K	5%	1/10W	
R821	1-216-073-00	METAL GLAZE 10K	5%	1/10W	
R822	1-216-069-00	METAL GLAZE 6.8K	5%	1/10W	
R823	1-216-073-00	METAL GLAZE 10K	5%	1/10W	
R824	1-216-073-00	METAL GLAZE 10K	5%	1/10W	
R825	1-216-049-00	METAL GLAZE 1K	5%	1/10W	
R826	1-216-097-00	METAL GLAZE 100K	5%	1/10W	
R827	1-216-079-00	METAL GLAZE 18K	5%	1/10W	
R828	1-216-089-00	METAL GLAZE 47K	5%	1/10W	
R829	1-216-119-00	METAL GLAZE 820K	5%	1/10W	
R831	1-216-025-00	METAL GLAZE 100	5%	1/10W	
R832	1-216-073-00	METAL GLAZE 10K	5%	1/10W	
R833	1-216-109-00	METAL GLAZE 330K	5%	1/10W	

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REF.NO.	PART NO.	DESCRIPTION				REMARK
R834	1-216-083-00	METAL GLAZE	27K	5%	1/10W	
R835	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R836	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R837	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R838	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R839	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R840	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R841	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R842	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R843	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R844	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R845	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R846	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R847	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R848	1-216-669-11	METAL CHIP	5.6K	0.50%	1/10W	
R849	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W	
R850	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R851	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R852	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R853	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R854	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R855	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R856	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R857	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R858	1-216-119-00	METAL GLAZE	820K	5%	1/10W	
R859	1-216-073-00	METAL GLAZE	10K	5%	1/10W	

<VARIABLE RESISTOR>

RV801	1-223-206-11	RES, VAR, CARBON 20K
RV802	1-223-207-11	RES, VAR, CARBON 20K
RV803	1-223-204-11	RES, VAR, CARBON 20K/20K
RV804	1-223-204-11	RES, VAR, CARBON 20K/20K
RV805	1-223-207-11	RES, VAR, CARBON 20K
RV806	1-241-727-21	RES, ADJ, CERMET 470K
RV807	1-223-206-11	RES, VAR, CARBON 20K
RV808	1-223-206-11	RES, VAR, CARBON 20K
RV809	1-241-723-21	RES, ADJ, CERMET 22K
RV810	1-241-725-21	RES, ADJ, CERMET 100K

<SWITCH>

S801	1-692-311-11	SWITCH, TOGGLE

****

MISCELLANEOUS
****

1-504-166-11	SPEAKER (2.8CM)
1-645-429-11	S BOARD
1-809-881-11	INDICATION PANEL MODULE

****

ACCESSORIES AND PACKING MATERIALS
****

X-4030-741-1	HOOD ASSY
*3-704-282-01	BAG (STANDARD), PROTECTION
3-755-759-22	MANUAL, INSTRUCTION
*4-038-296-01	INDIVIDUAL CARTON
*4-038-298-01	SHEET, PROTECTION
4-038-375-01	STRAP

9-964-894-01

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